

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <div style="color: red; text-align: center;">30-015-56853</div>
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NESW / 2403 FSL / 1775 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4343943 / LONG: -103.7343019 (TVD: 0 feet, MD: 0 feet)
PPP: NWSW / 2543 FSL / 760 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4347822 / LONG: -103.7375923 (TVD: 9900 feet, MD: 10330 feet)
PPP: NWSW / 2630 FNL / 759 FWL / TWSP: 22S / RANGE: 31E / SECTION: 1 / LAT: 32.4205647 / LONG: -103.7375979 (TVD: 9900 feet, MD: 14953 feet)
BHL: SWSW / 20 FSL / 760 FWL / TWSP: 22S / RANGE: 31E / SECTION: 1 / LAT: 32.4133584 / LONG: -103.7376008 (TVD: 9900 feet, MD: 17575 feet)

BLM Point of Contact

Name: TENILLE C MOLINA
Title: Land Law Examiner
Phone: (575) 234-2224
Email: TCMOLINA@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 PAGE 1 OF 2
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-56853	Pool Code 5697 5695	Pool Name BILBREY BASIN; BONE SPRING
Property Code 337357	Property Name STRESSED DESSERTS 36_1 FED COM	Well Number 1H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3570'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
K	36	21S	31E		2403' FSL	1775' FWL	32.43439431	-103.73430190	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	01	22S	31E		20' FSL	760' FWL	32.41335840	-103.73760086	EDDY

Dedicated Acres 959.24	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
L	36	21S	31E		2593' FSL	760' FWL	32.43491970	-103.73759245	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
L	36	21S	31E		2543' FSL	760' FWL	32.43478226	-103.73759239	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	01	22S	31E		100' FSL	760' FWL	32.41357830	-103.73760068	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3570'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Leslie T. Reeves 3/24/2025

Signature Date

LESLIE REEVES
Printed Name

LESLIE_REEVES@OXY.COM
Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

Certificate Number

21653

Date of Survey

JANUARY 09, 2025

ACREAGE DEDICATION PLATS

STRESSED DESSERTS 36_1 FED COM 1H

PAGE 2 OF 2

SHL (NAD83)
X:726150.73' / Y:522281.91'
LAT:32.43439431 / LON:-103.73430190

SHL (NAD27)
X:684968.90' / Y:522221.01'
LAT:32.43427194 / LON:-103.73381106

KOP (NAD83)
X:725134.44' / Y:522467.37'
LAT:32.43491970 / LON:-103.73759245

KOP (NAD27)
X:683952.63' / Y:522406.47'
LAT:32.43479735 / LON:-103.73710149

FTP (NAD83)
X:725134.74' / Y:522417.37'
LAT:32.43478226 / LON:-103.73759239

FTP (NAD27)
X:683952.93' / Y:522356.47'
LAT:32.43465991 / LON:-103.73710143

PPP-1 (NAD83)
X:725161.86' / Y:517245.00'
LAT:32.42056471 / LON:-103.73759796

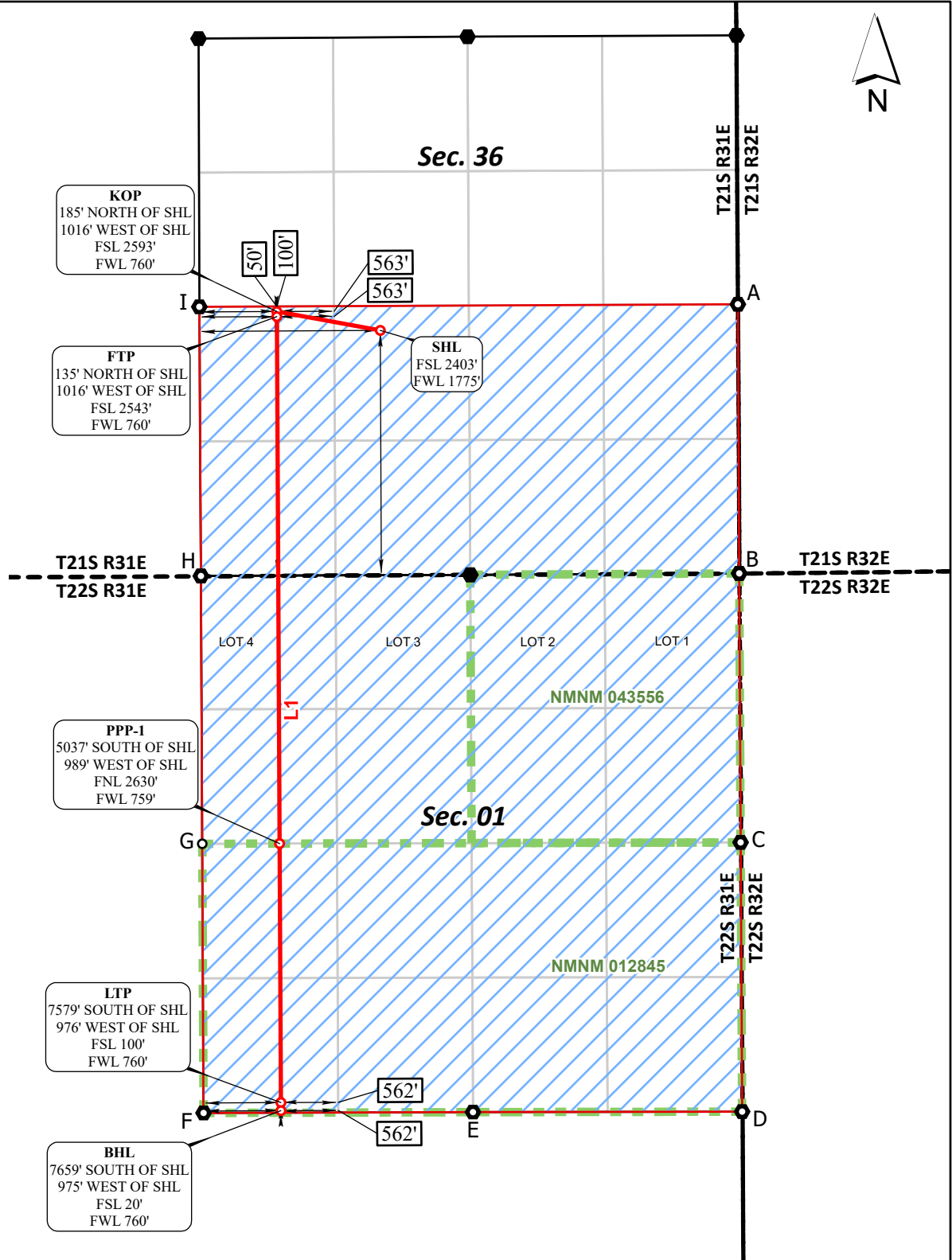
PPP-1 (NAD27)
X:683979.90' / Y:517184.24'
LAT:32.42044228 / LON:-103.73710757

LTP (NAD83)
X:725175.19' / Y:514703.34'
LAT:32.41357830 / LON:-103.73760068

LTP (NAD27)
X:683993.15' / Y:514642.64'
LAT:32.41345584 / LON:-103.73711057

BHL (NAD83)
X:725175.58' / Y:514623.34'
LAT:32.41335840 / LON:-103.73760086

BHL (NAD27)
X:683993.54' / Y:514562.64'
LAT:32.41323594 / LON:-103.73711076

**CORNER COORDINATES
NAD 83, SPCS NM EAST**

A - X: 729659.88' / Y:522538.65'
B - X: 729673.35' / Y:519897.17'
C - X: 729686.87' / Y:517256.69'
D - X: 729701.84' / Y:514614.14'
E - X: 727060.07' / Y:514609.01'
F - X: 724415.68' / Y:514601.05'
G - X: 724402.79' / Y:517243.04'
H - X: 724389.93' / Y:519871.47'
I - X: 724374.15' / Y:522513.80'

**CORNER COORDINATES
NAD 27, SPCS NM EAST**

A - X: 688478.03' / Y:522477.73'
B - X: 688491.43' / Y:519836.33'
C - X: 688504.87' / Y:517195.92'
D - X: 688519.77' / Y:514553.44'
E - X: 688578.02' / Y:514548.32'
F - X: 683233.05' / Y:514540.36'
G - X: 683220.83' / Y:517182.28'
H - X: 683208.05' / Y:519810.64'
I - X: 683192.35' / Y:522452.90'

***FTP to LTP LINE BEARINGS**

LINE	BEARING
L1	S 00°18'02" E ~ 7714.14'

***FTP to LTP LEASE DISTANCES**

TRACT	DISTANCE
NMNM 012845	2541.70'
TOTAL	2541.70'

○ Drill Line Events

● Section Corners

— Drill Line

↔ Dimension Lines

— Federal Leases

— HSU

○ HSU Corners

JOB No. OXY_0037_SD04_14283

REV 1 NDS 1/8/2025

All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99977773 and a Convergence Angle: 0.32273852°





SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD

SEC. 36 TWP. 21-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

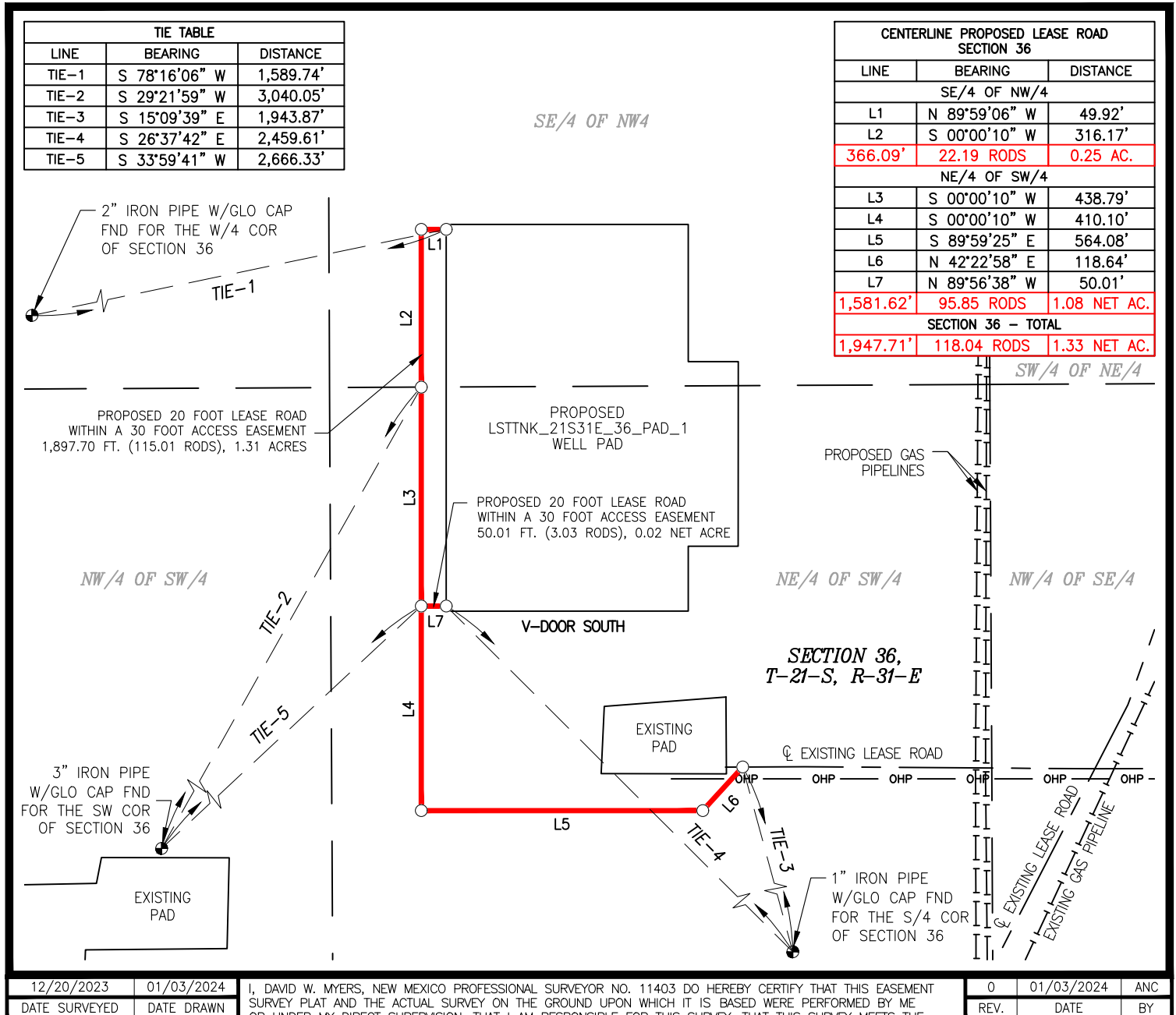
OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



150' 0' 150' 300'
SCALE: 1" = 300'



BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518°.

LEGEND			
	EXISTING ROAD		OHP OVERHEAD POWER FENCE
	PROPOSED ROAD		SECTION LINE
	SURFACE SITE EDGE		PROPERTY LINE
	EXIST. PIPELINE		WATER LINE
	MONUMENT		SALT WATER LINE
	QUARTER SPLIT		

JANUARY 19, 2024

DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 1 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD
SEC. 21 TWP. 21-S RGE. 31-E

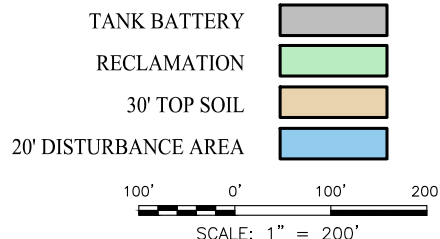
SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

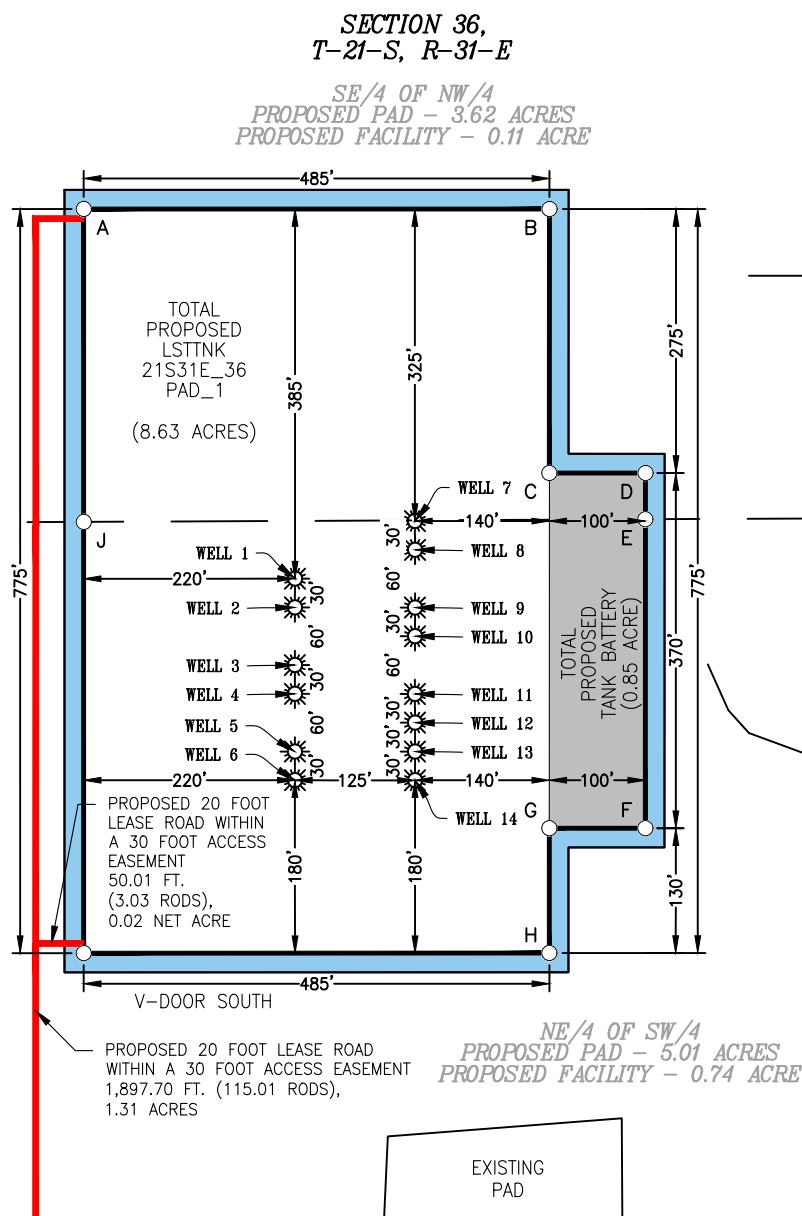
U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



NAD 83		
A	E:(X)725930.68 N:(Y)522847.06	LAT:32.43595110 LON:-103.73500483
B	E:(X)726415.80 N:(Y)522847.05	LAT:32.43594359 LON:-103.73343247
C	E:(X)726415.76 N:(Y)522572.13	LAT:32.43518794 LON:-103.73343762
D	E:(X)726515.81 N:(Y)522572.03	LAT:32.43518611 LON:-103.73311333
E	E:(X)726515.80 N:(Y)522523.87	LAT:32.43505374 LON:-103.73311424
F	E:(X)726515.69 N:(Y)522202.10	LAT:32.43416931 LON:-103.73312045
G	E:(X)726415.70 N:(Y)522202.08	LAT:32.43417079 LON:-103.73344455
H	E:(X)726415.68 N:(Y)522071.95	LAT:32.43381312 LON:-103.73344698
I	E:(X)725930.73 N:(Y)522071.92	LAT:32.43382051 LON:-103.73501875
J	E:(X)725930.70 N:(Y)522521.12	LAT:32.43505520 LON:-103.73501069

NAD 27		
A	E:(X)684748.88 N:(Y)522768.15	LAT:32.43582874 LON:-103.73451392
B	E:(X)685233.99 N:(Y)522786.14	LAT:32.43582122 LON:-103.73294160
C	E:(X)685233.94 N:(Y)522511.22	LAT:32.43506556 LON:-103.73294677
D	E:(X)685333.99 N:(Y)522511.12	LAT:32.43506374 LON:-103.73262250
E	E:(X)685333.98 N:(Y)522462.96	LAT:32.43493136 LON:-103.73262342
F	E:(X)685333.86 N:(Y)522141.20	LAT:32.43404692 LON:-103.73262967
G	E:(X)685233.87 N:(Y)522141.18	LAT:32.43404841 LON:-103.73295374
H	E:(X)685233.85 N:(Y)522011.06	LAT:32.43369073 LON:-103.73295618
I	E:(X)684748.90 N:(Y)522011.03	LAT:32.43369813 LON:-103.73452791
J	E:(X)684748.89 N:(Y)522460.22	LAT:32.43493283 LON:-103.73451980



12/20/2023	01/03/2024
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

0	01/03/2024	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518°.

LEGEND			
—	EXISTING ROAD	— x —	OHP
—	PROPOSED ROAD	— x —	OVERHEAD POWER FENCE
—	SURFACE SITE EDGE	—	SECTION LINE
—	EXIST. PIPELINE	—	PROPERTY LINE
—		— w —	WATER LINE
—		— SWD —	SALT WATER LINE
●	MONUMENT		
●	QUARTER SPLIT		

JANUARY 19, 2024



DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 2 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD

SEC. 36 TWP. 21-S RGE. 31-E

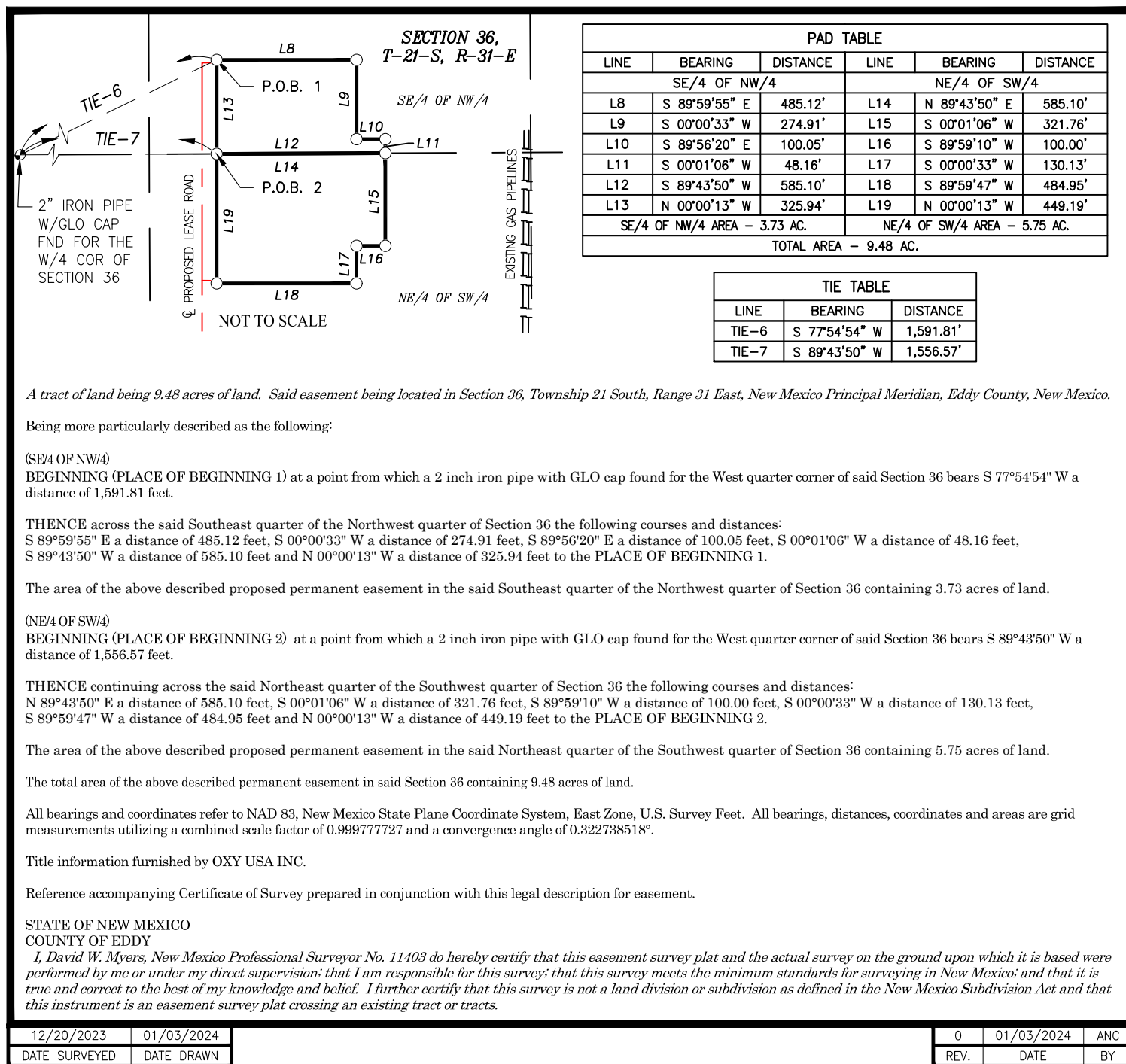
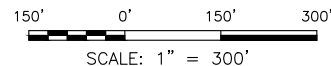
SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



LEGEND			
	EXISTING ROAD		OHP
	PROPOSED ROAD		FENCE
	SURFACE SITE EDGE		SECTION LINE
	EXIST. PIPELINE		PROPERTY LINE
	MONUMENT		WATER LINE
	QUARTER SPLIT		SALT WATER LINE

JANUARY 19, 2024

DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
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JOB No. OXY_0037_SD04
SHEET 3 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD
SEC. 36 TWP. 21-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



WELL 1
STRESSED DESSERTS 36_1 FED COM 21H
OXY USA, INC.

2,583' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.83' / Y:522461.97'
LAT:32.43488923N / LON:103.73429829W
NAD 27, SPCS NM EAST
X:684969.01' / Y:522401.07'
LAT:32.43476686N / LON:103.73380744W
ELEVATION = 3561'

WELL 2
STRESSED DESSERTS 36_1 FED COM 22H
OXY USA, INC.

2,553' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.75' / Y:522432.05'
LAT:32.43480697N / LON:103.73429908W
NAD 27, SPCS NM EAST
X:684968.94' / Y:522371.14'
LAT:32.43468460N / LON:103.73380823W
ELEVATION = 3561'

WELL 3
STRESSED DESSERTS 36_1 FED COM 11H
OXY USA, INC.

2,493' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.66' / Y:522372.00'
LAT:32.43464192N / LON:103.73430047W
NAD 27, SPCS NM EAST
X:684968.84' / Y:522311.09'
LAT:32.43451955N / LON:103.73380962W
ELEVATION = 3563'

WELL 4
STRESSED DESSERTS 36_1 FED COM 12H
OXY USA, INC.

2,463' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.73' / Y:522341.98'
LAT:32.43455942N / LON:103.73430080W
NAD 27, SPCS NM EAST
X:684968.91' / Y:522281.08'
LAT:32.43443705N / LON:103.73380996W
ELEVATION = 3565'

WELL 5
STRESSED DESSERTS 36_1 FED COM 1H
OXY USA, INC.

2,403' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.73' / Y:522281.91'
LAT:32.43439431N / LON:103.73430190W
NAD 27, SPCS NM EAST
X:684968.90' / Y:522221.01'
LAT:32.43427194N / LON:103.73381106W
ELEVATION = 3570'

WELL 6
STRESSED DESSERTS 36_1 FED COM 2H
OXY USA, INC.

2,373' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.76' / Y:522252.11'
LAT:32.43431239N / LON:103.73430234W
NAD 27, SPCS NM EAST
X:684968.93' / Y:522191.21'
LAT:32.43419002N / LON:103.73381150W
ELEVATION = 3576'

WELL 7
STRESSED DESSERTS 36_1 FED COM 41H
OXY USA, INC.

2,642' FSL 1,902' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.77' / Y:522522.03'
LAT:32.43505239N / LON:103.73389226W
NAD 27, SPCS NM EAST
X:685093.95' / Y:522461.13'
LAT:32.43493002N / LON:103.73340141W
ELEVATION = 3563'

WELL 8
STRESSED DESSERTS 36_1 FED COM 42H
OXY USA, INC.

2612' FSL 1,902' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.87' / Y:522492.03'
LAT:32.43496992N / LON:103.73389247W
NAD 27, SPCS NM EAST
X:685094.05' / Y:522431.12'
LAT:32.43484755N / LON:103.73340163W
ELEVATION = 3564'

WELL 9
STRESSED DESSERTS 36_1 FED COM 71H
OXY USA, INC.

2,552' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522431.96'
LAT:32.43480480N / LON:103.73389380W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522371.05'
LAT:32.43468243N / LON:103.73340296W
ELEVATION = 3565'

WELL 10
STRESSED DESSERTS 36_1 FED COM 72H
OXY USA, INC.

2,522' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.83' / Y:522402.01'
LAT:32.43472250N / LON:103.73389422W
NAD 27, SPCS NM EAST
X:685094.01' / Y:522341.11'
LAT:32.43460012N / LON:103.73340339W
ELEVATION = 3565'

WELL 11
STRESSED DESSERTS 36_1 FED COM 31H
OXY USA, INC.

2,462' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.74' / Y:522341.86'
LAT:32.43455717N / LON:103.73389561W
NAD 27, SPCS NM EAST
X:685093.92' / Y:522280.96'
LAT:32.43443479N / LON:103.73340478W
ELEVATION = 3565'

WELL 12
STRESSED DESSERTS 36_1 FED COM 32H
OXY USA, INC.

2,432' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.84' / Y:522312.05'
LAT:32.43447521N / LON:103.73389585W
NAD 27, SPCS NM EAST
X:685094.01' / Y:522251.15'
LAT:32.43435284N / LON:103.73340502W
ELEVATION = 3565'

WELL 13
STRESSED DESSERTS 36_1 FED COM 33H
OXY USA, INC.

2,402' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522281.93'
LAT:32.43439242N / LON:103.73389650W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522221.03'
LAT:32.43427004N / LON:103.73340568W
ELEVATION = 3566'

WELL 14
STRESSED DESSERTS 36_1 FED COM 34H
OXY USA, INC.

2,372' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522251.98'
LAT:32.43431011N / LON:103.73389706W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522191.08'
LAT:32.43418773N / LON:103.73340624W
ELEVATION = 3567'

12/20/2023 01/03/2024

DATE SURVEYED DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

0 01/03/2024 ANC

REV. DATE BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518°.

LEGEND

— — — — — EXISTING ROAD
— — — — — PROPOSED ROAD
— — — — — SURFACE SITE EDGE
— — — — — EXIST. PIPELINE
● MONUMENT ● QUARTER SPLIT
— — — — — OHP OVERHEAD POWER
— x — x — — — — FENCE
— — — — — SECTION LINE
— — — — — PROPERTY LINE
— w — w — — — — WATER LINE
— — — — — SWD SALT WATER LINE

JANUARY 19, 2024

DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 4 OF 4

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: OXY USA INC. **OGRID:** 16696 **Date:** 1 0/ 1 4/ 2 4

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

IV. Central Delivery Point Name: Lost Tank 35 Central Processing Facility [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Melissa Guidry</i>
Printed Name: Melissa Guidry
Title: Regulatory Advisor Sr.
E-mail Address: melissa_guidry@oxy.com
Date: 10/14/2024
Phone: 713-497-2481
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

V. Anticipated Schedule

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
STRESSED DESSERTS 36_1 FED COM 1H	Pending	K-36-T21S-R31E	2403 FSL 1775 FWL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 2H	Pending	K-36-T21S-R31E	2373 FSL 1775 FWL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 3H	Pending	J-36-T21S-R31E	2498 FSL 1675 FEL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 4H	Pending	J-36-T21S-R31E	2528 FSL 1674 FEL	2200	3300	4700
STRESSED DESSERTS 36_1 FED COM 11H	Pending	K-36-T21S-R31E	2493 FSL 1776 FWL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 12H	Pending	K-36-T21S-R31E	2453 FSL 1776 FWL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 13H	Pending	J-36-T21S-R31E	2408 FSL 1675 FEL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 14H	Pending	J-36-T21S-R31E	2438 FSL 1675 FEL	2000	8000	2500
STRESSED DESSERTS 36_1 FED COM 21H	Pending	K-36-T21S-R31E	2583 FSL 1776 FWL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 22H	Pending	K-36-T21S-R31E	2553 FSL 1776 FWL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 23H	Pending	J-36-T21S-R31E	2318 FSL 1675 FEL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 24H	Pending	J-36-T21S-R31E	2346 FSL 1675 FEL	1800	3500	3700
STRESSED DESSERTS 36_1 FED COM 38H	Pending	J-36-T21S-R31E	2527 FSL 1549 FEL	2000	3800	3200
STRESSED DESSERTS 36_1 FED COM 71H	Pending	K-36-T21S-R31E	2552 FSL 1901 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 72H	Pending	K-36-T21S-R31E	2522 FSL 1901 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 73H	Pending	J-36-T21S-R31E	2347 FSL 1550 FWL	1000	3500	2300
STRESSED DESSERTS 36_1 FED COM 74H	Pending	J-36-T21S-R31E	2377 FSL 1550 FEL	1000	3500	2300

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
STRESSED DESSERTS 36_1 FED COM 1H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 2H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 3H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 4H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 11H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 12H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 13H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 14H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 21H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 22H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 23H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 24H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 38H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 71H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 72H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 73H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026
STRESSED DESSERTS 36_1 FED COM 74H	Pending	12/1/2025	01/01/2026	02/01/2026	03/15/2026	03/16/2026

Central Delivery Point Name : Lost Tank 35 Central Processing Facility

Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. The actual flow of the gas will be based on compression operating parameters and gathering system pressures

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on MPLX system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s). Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

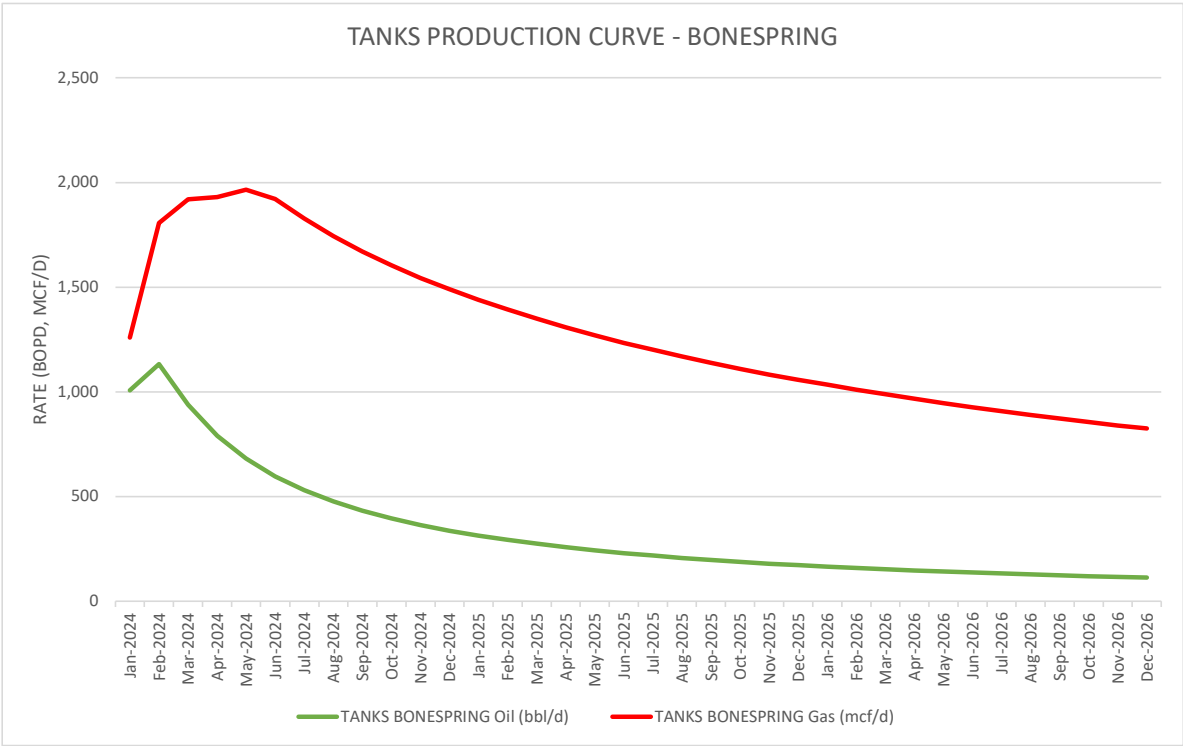
Compressed Natural Gas – On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

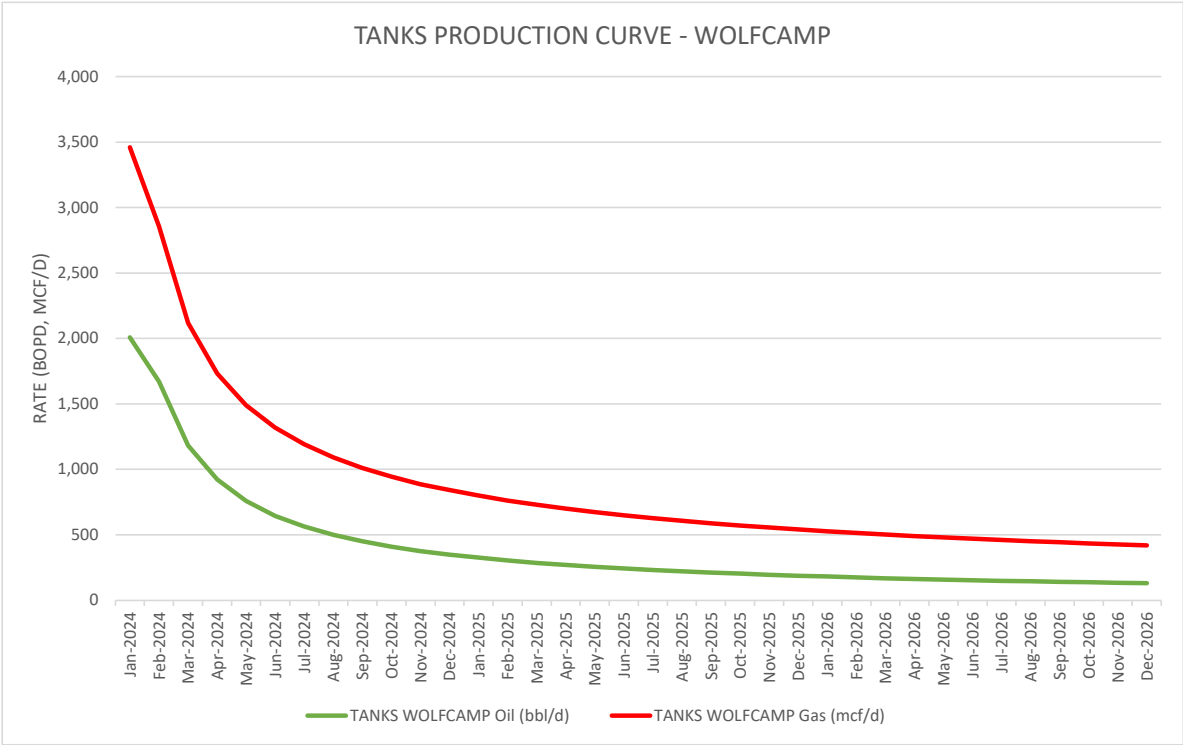
NGL Removal – On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

	TANKS BONESPRING	
	Oil (bbl/d)	Gas (mcf/d)
Jan-2024	1,006	1,259
Feb-2024	1,133	1,807
Mar-2024	938	1,919
Apr-2024	790	1,931
May-2024	681	1,965
Jun-2024	596	1,922
Jul-2024	530	1,827
Aug-2024	477	1,744
Sep-2024	432	1,671
Oct-2024	395	1,604
Nov-2024	363	1,543
Dec-2024	337	1,490
Jan-2025	314	1,441
Feb-2025	293	1,393
Mar-2025	274	1,350
Apr-2025	258	1,309
May-2025	243	1,271
Jun-2025	229	1,234
Jul-2025	218	1,200
Aug-2025	207	1,169
Sep-2025	197	1,139
Oct-2025	188	1,110
Nov-2025	179	1,083
Dec-2025	172	1,058
Jan-2026	165	1,034
Feb-2026	159	1,011
Mar-2026	152	988
Apr-2026	147	967
May-2026	141	947
Jun-2026	136	927
Jul-2026	132	908
Aug-2026	127	890
Sep-2026	123	873
Oct-2026	120	856
Nov-2026	116	840
Dec-2026	112	825



	TANKS WOLFCAMP	
	Oil (bbl/d)	Gas (mcf/d)
Jan-2024	2,008	3,461
Feb-2024	1,671	2,856
Mar-2024	1,182	2,118
Apr-2024	921	1,733
May-2024	758	1,490
Jun-2024	644	1,317
Jul-2024	562	1,190
Aug-2024	500	1,091
Sep-2024	450	1,011
Oct-2024	410	944
Nov-2024	376	887
Dec-2024	349	841
Jan-2025	325	800
Feb-2025	304	763
Mar-2025	286	730
Apr-2025	270	700
May-2025	256	674
Jun-2025	243	649
Jul-2025	231	627
Aug-2025	221	607
Sep-2025	211	589
Oct-2025	203	571
Nov-2025	194	555
Dec-2025	187	541
Jan-2026	181	528
Feb-2026	175	515
Mar-2026	169	502
Apr-2026	163	491
May-2026	158	480
Jun-2026	153	470
Jul-2026	149	460
Aug-2026	145	451
Sep-2026	141	442
Oct-2026	137	434
Nov-2026	133	426
Dec-2026	130	419



Oxy USA Inc. - STRESSED DESSERTS 36_1 FED COM 1H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	9900	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	17575	Deepest Expected Fresh Water (ft):	740

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	740	740	
Salado	1034	1034	Salt
Castile	2628	2628	Salt
Delaware	4369	4369	Oil/Gas/Brine
Bell Canyon	4464	4464	Oil/Gas/Brine
Cherry Canyon	5309	5305	Oil/Gas/Brine
Brushy Canyon	6652	6621	Losses
Bone Spring	8401	8332	Oil/Gas
Bone Spring 1st	9493	9400	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	800	0	800	13.375	54.5	J-55	BTC
Salt	12.25	0	4469	0	4469	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	9309	0	9218	7.625	26.4	L-80 HC	BTC
Production	6.75	0	17575	0	9900	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	836	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3,969	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	627	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	323	1.68	13.2	5%	6,902	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	447	1.71	13.3	25%	3,969	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	496	1.84	13.3	25%	8,809	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	4469
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9218
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9900
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	800	0	800	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	800	4469	800	4469	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4469	9309	4469	9218	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	9309	17575	9218	9900	Water-Based or Oil-Based Mud	8.0 - 9.6	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
---	--------------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).	
	Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned		Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4943 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	160°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

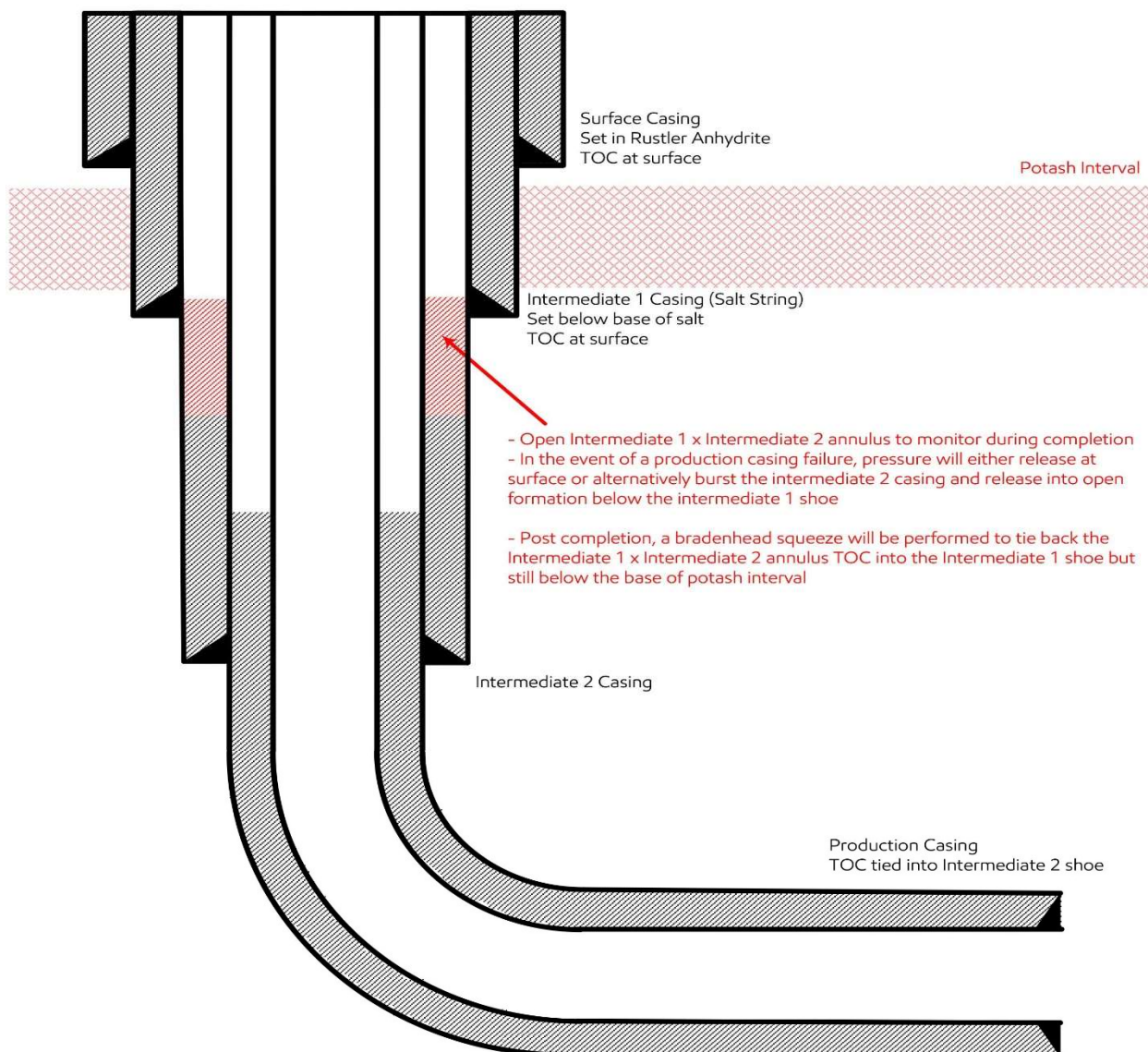
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 4 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the snudder rig.	Yes
Total Estimated Cuttings Volume: 1598 bbls	

Revision Date – May 21, 2024

4-String Design – Open Int 1 x Int 2 Annulus

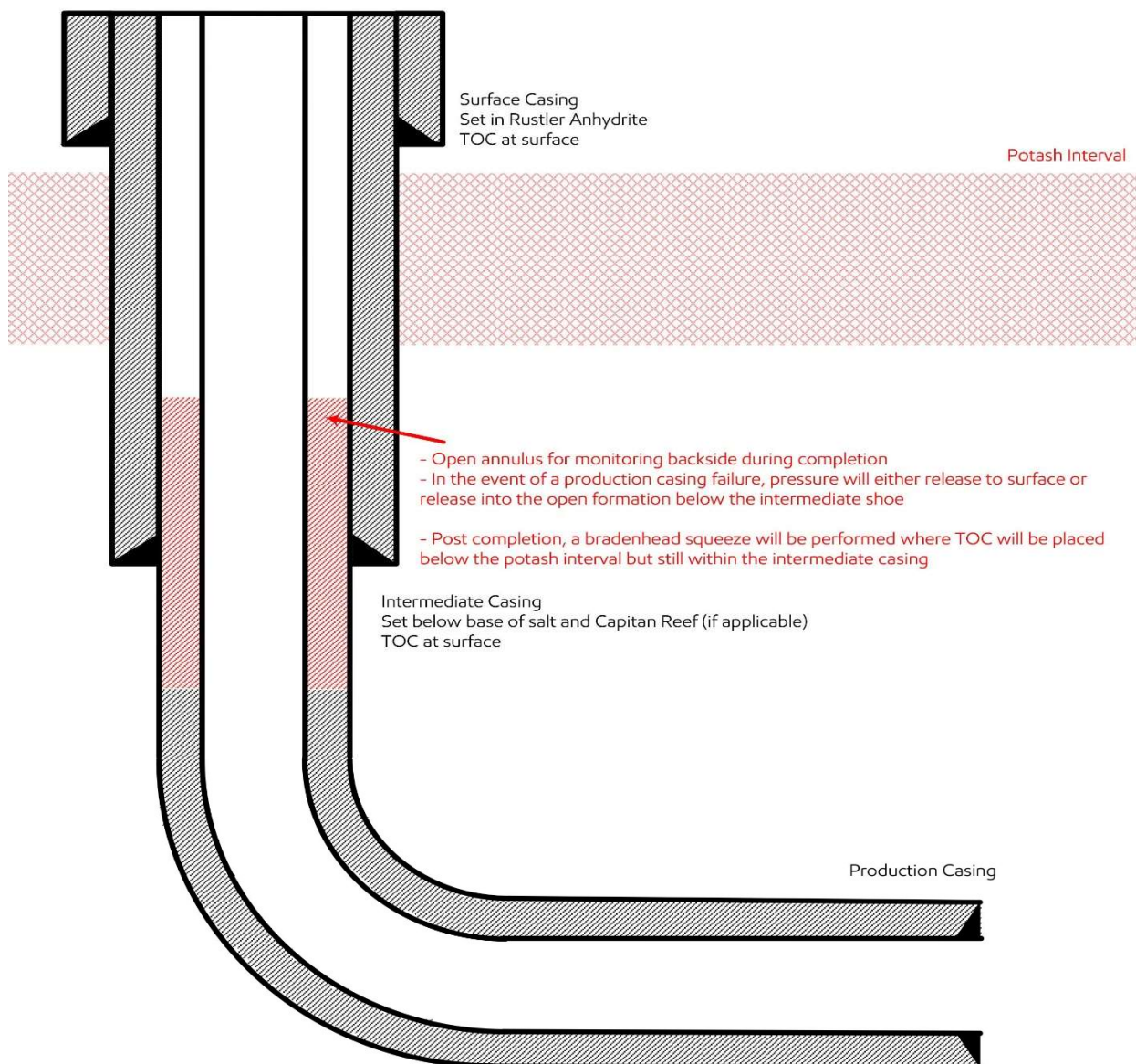
**Update May 2024:**

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe
- 5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that $SF > 1.0$; Anti-Collision Reports will be provided with APD Packages for review where $SF < 1.5$ against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date – May 21, 2024

3-String Design – Open Production Casing Annulus



Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126
- 4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that $SF > 1.0$; Anti-Collision Reports will be provided with APD Packages for review where $SF < 1.5$ against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

OXY USA Inc
APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

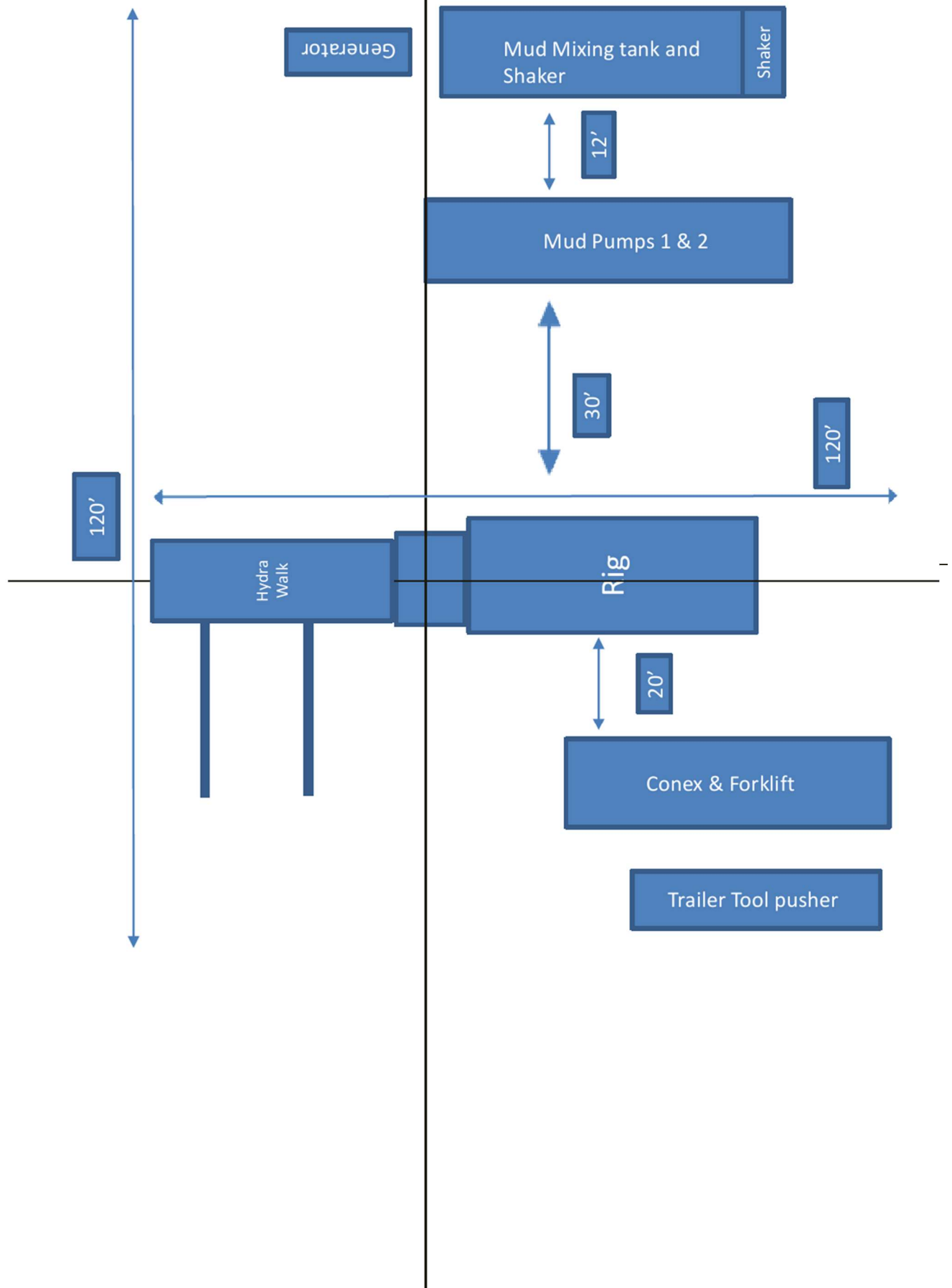
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

Spudder Rig Layout



BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procedure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

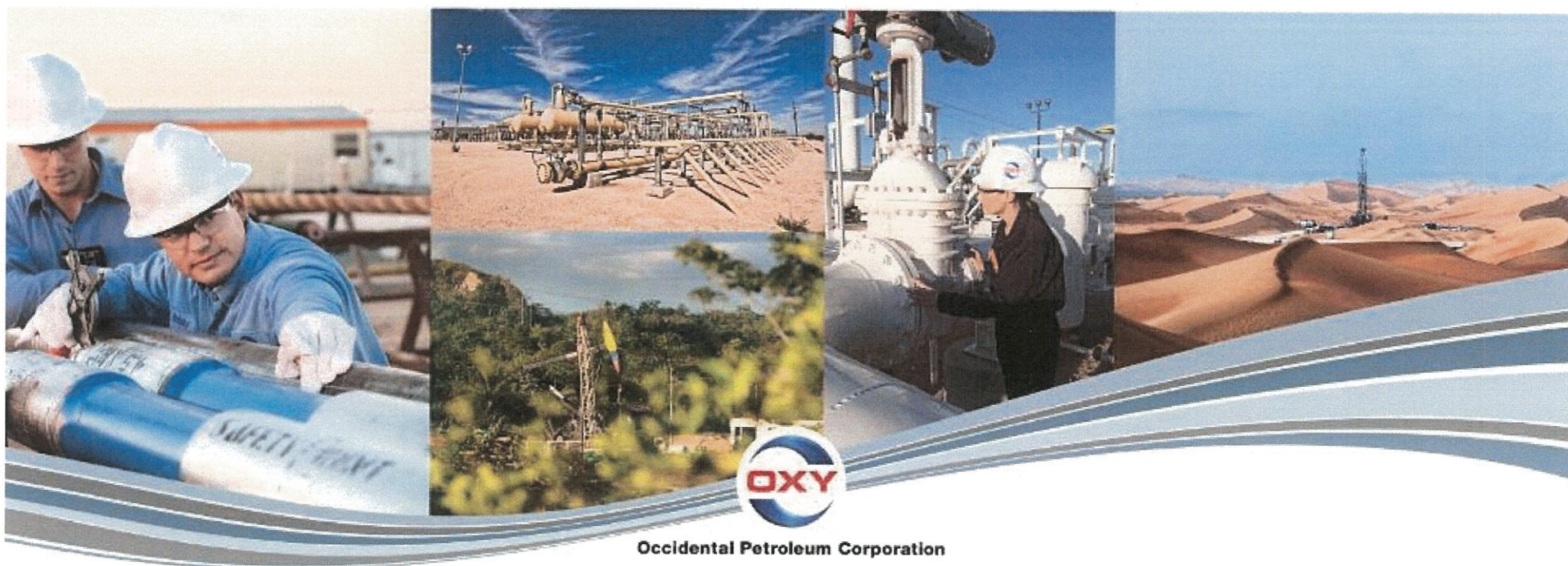
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Occidental Petroleum Corporation

Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the *Onshore Oil and Gas Order (OOGO) No. 2*

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- API Standard 53, *Blowout Prevention Equipment Systems for Drilling Wells* (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states “Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component.”



Rationale for Allowing BOP Break Testing

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*. Within these regulations is language adopted from API Standard 53 which also supports break testing.
- Specifically, Section 250.737(d.8) states “Pressure test affected BOP components following the disconnection or repair of any well-pressure containment seal in the wellhead or BOP stack assembly.”



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing in 2015
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO No. 2

- As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of OOGO No. 2

Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed



Break Testing Procedures

- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed.
A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested



Break Testing Procedures and Tests

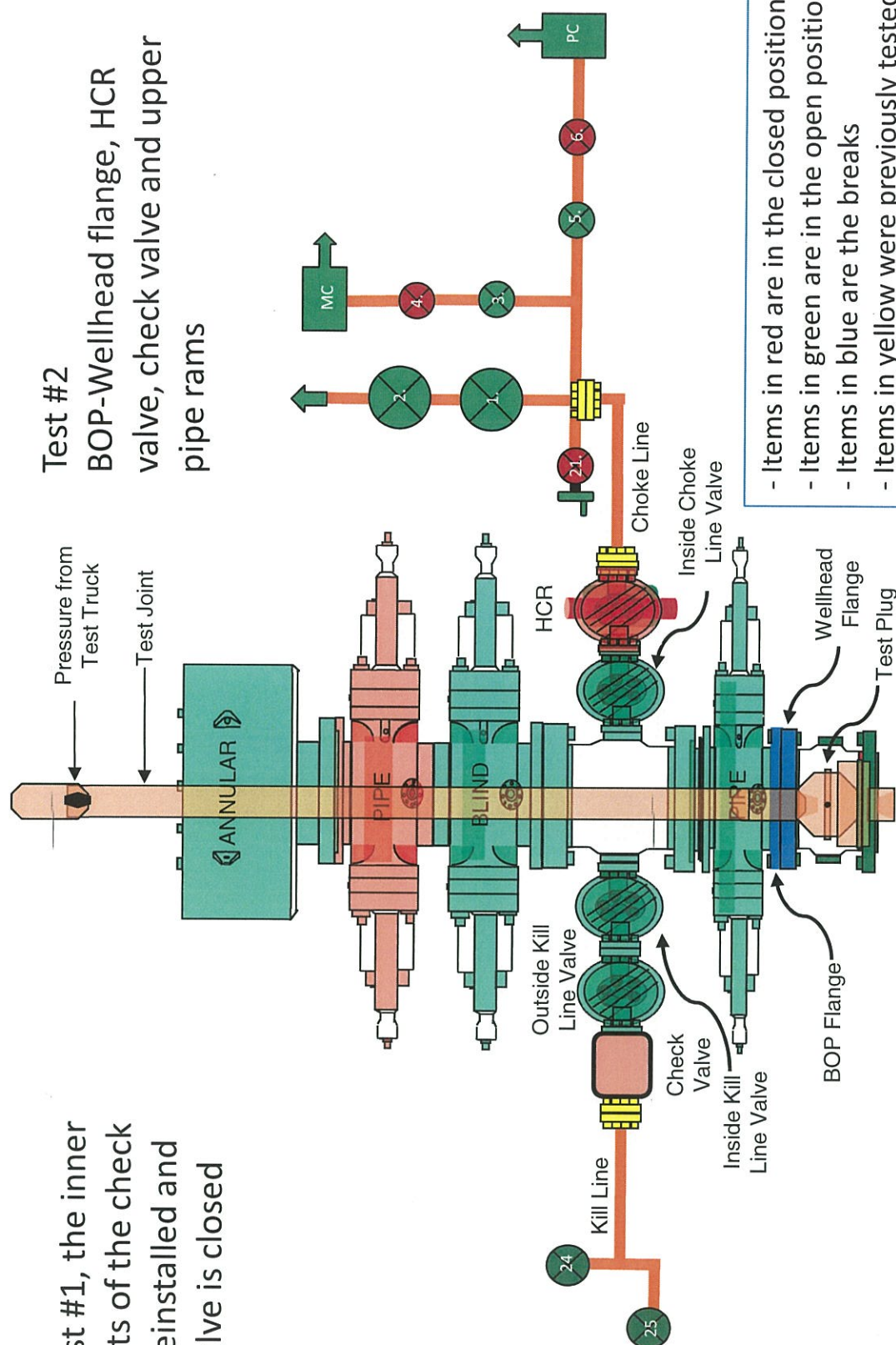
1. After performing a complete BOP test on the first well, the BOP is removed, the rig is skidded and the BOP is installed on the second well

2. A test plug is installed in the wellhead on drill pipe and the inner components of the check valve are removed



3. After Test #1, the inner components of the check valve are reinstalled and the HCR valve is closed

Test #2
BOP-Wellhead flange, HCR
valve, check valve and upper
pipe rams



- Items in red are in the closed position
- Items in green are in the open position
- Items in blue are the breaks
- Items in yellow were previously tested

Second Break Testing Procedures and Tests

Procedures 1 and 2 and Test #1 will be completed as in the first break test (see slide 8)

3. After Test #1, the inner components of the check valve are reinstalled and the inside choke line valve is closed



BOP Handling System



Hydraulic winch system which moves the BOP from its carrier to the wellhead

BOP standing in its carrier





12

BOP Handling System



Hydraulic winch
system moving
the BOP over to
the wellhead

Wellhead

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
 - OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
 - API Standard 53 recognizes break testing as an acceptable practice
 - The Bureau of Safety and Environmental Enforcement has utilized API standards, specifications and best practices in the development of its offshore oil and gas regulations
 - API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment

Bradenhead Cement CBL Variance Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Offline Cementing Variance Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

1. Cement Program

No changes to the cement program will take place for offline cementing.

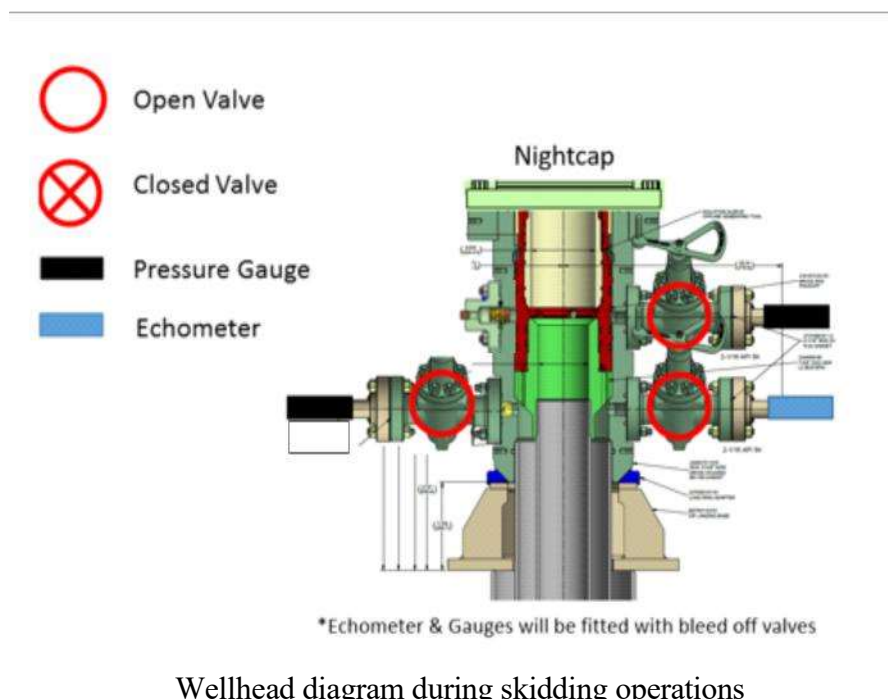
2. Offline Cementing Procedure

The operational sequence will be as follows:

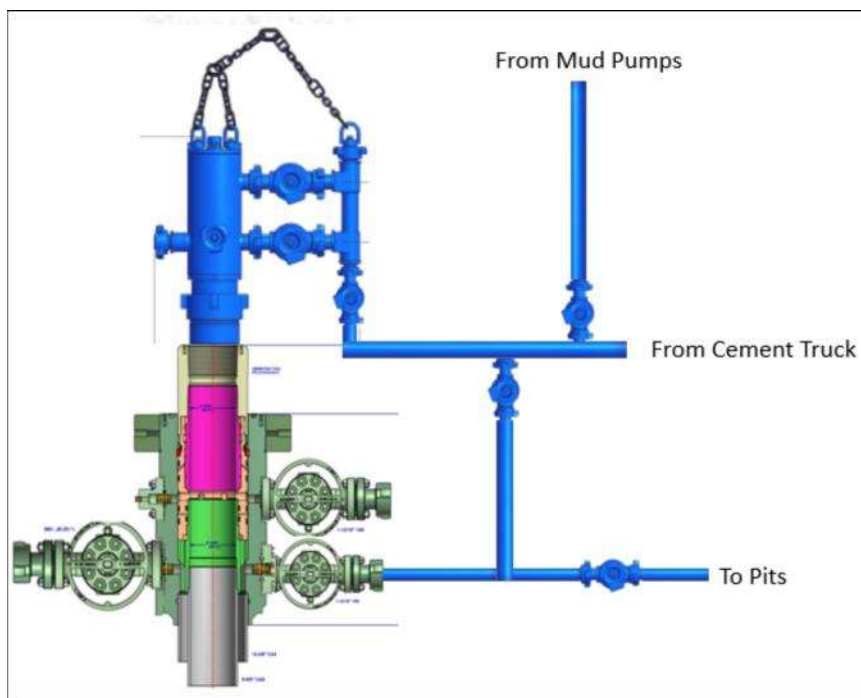
1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal.
Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Stressed Desserts 36_1 Fed Com

Stressed Desserts 36_1 Fed Com 1H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

20 June, 2024

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Stressed Desserts 36_1 Fed Com		
Site Position:		Northing:	522,341.86 usft
From:	Map	Easting:	726,275.74 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.434557
		Longitude:	-103.733896

Well	Stressed Desserts 36_1 Fed Com 1H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.32 °		
		Latitude:	32.434394
		Longitude:	-103.734302
		Ground Level:	3,570.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	6/20/2024	6.38	60.05	47,560.10000000

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	187.26

Plan Survey Tool Program	Date	6/20/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,574.77	Permitting Plan (Wellbore #1)	SQC_C705Mb_MWD+IFR1
				MWD+IFR1+Sag+FDIR

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,419.00	0.00	0.00	4,419.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,612.74	11.94	280.05	5,604.12	21.63	-122.01	1.00	1.00	0.00	280.05	
9,408.91	11.94	280.05	9,318.20	158.67	-895.16	0.00	0.00	0.00	0.00	
10,330.21	90.00	179.70	9,900.00	-414.52	-1,013.16	10.00	8.47	-10.89	-100.13	
17,574.77	90.00	179.70	9,900.00	-7,658.98	-975.20	0.00	0.00	0.00	0.00	PBHL (Stressed)

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,419.00	0.00	0.00	4,419.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.81	280.05	4,500.00	0.10	-0.56	-0.03	1.00	1.00	0.00
4,600.00	1.81	280.05	4,599.97	0.50	-2.81	-0.14	1.00	1.00	0.00
4,700.00	2.81	280.05	4,699.89	1.20	-6.78	-0.34	1.00	1.00	0.00
4,800.00	3.81	280.05	4,799.72	2.21	-12.47	-0.62	1.00	1.00	0.00
4,900.00	4.81	280.05	4,899.44	3.52	-19.87	-0.98	1.00	1.00	0.00
5,000.00	5.81	280.05	4,999.00	5.14	-28.98	-1.44	1.00	1.00	0.00
5,100.00	6.81	280.05	5,098.40	7.05	-39.80	-1.97	1.00	1.00	0.00
5,200.00	7.81	280.05	5,197.58	9.28	-52.33	-2.59	1.00	1.00	0.00
5,300.00	8.81	280.05	5,296.53	11.80	-66.56	-3.30	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	9.81	280.05	5,395.21	14.62	-82.49	-4.09	1.00	1.00	0.00
5,500.00	10.81	280.05	5,493.60	17.74	-100.11	-4.96	1.00	1.00	0.00
5,600.00	11.81	280.05	5,591.66	21.17	-119.42	-5.92	1.00	1.00	0.00
5,612.74	11.94	280.05	5,604.12	21.63	-122.01	-6.04	1.00	1.00	0.00
5,700.00	11.94	280.05	5,689.50	24.78	-139.78	-6.92	0.00	0.00	0.00
5,800.00	11.94	280.05	5,787.33	28.39	-160.14	-7.93	0.00	0.00	0.00
5,900.00	11.94	280.05	5,885.17	32.00	-180.51	-8.94	0.00	0.00	0.00
6,000.00	11.94	280.05	5,983.01	35.61	-200.88	-9.95	0.00	0.00	0.00
6,100.00	11.94	280.05	6,080.85	39.22	-221.24	-10.96	0.00	0.00	0.00
6,200.00	11.94	280.05	6,178.68	42.83	-241.61	-11.97	0.00	0.00	0.00
6,300.00	11.94	280.05	6,276.52	46.44	-261.98	-12.98	0.00	0.00	0.00
6,400.00	11.94	280.05	6,374.36	50.05	-282.35	-13.99	0.00	0.00	0.00
6,500.00	11.94	280.05	6,472.19	53.66	-302.71	-14.99	0.00	0.00	0.00
6,600.00	11.94	280.05	6,570.03	57.27	-323.08	-16.00	0.00	0.00	0.00
6,700.00	11.94	280.05	6,667.87	60.88	-343.45	-17.01	0.00	0.00	0.00
6,800.00	11.94	280.05	6,765.71	64.49	-363.81	-18.02	0.00	0.00	0.00
6,900.00	11.94	280.05	6,863.54	68.10	-384.18	-19.03	0.00	0.00	0.00
7,000.00	11.94	280.05	6,961.38	71.71	-404.55	-20.04	0.00	0.00	0.00
7,100.00	11.94	280.05	7,059.22	75.32	-424.91	-21.05	0.00	0.00	0.00
7,200.00	11.94	280.05	7,157.06	78.93	-445.28	-22.06	0.00	0.00	0.00
7,300.00	11.94	280.05	7,254.89	82.54	-465.65	-23.06	0.00	0.00	0.00
7,400.00	11.94	280.05	7,352.73	86.15	-486.01	-24.07	0.00	0.00	0.00
7,500.00	11.94	280.05	7,450.57	89.76	-506.38	-25.08	0.00	0.00	0.00
7,600.00	11.94	280.05	7,548.41	93.37	-526.75	-26.09	0.00	0.00	0.00
7,700.00	11.94	280.05	7,646.24	96.98	-547.11	-27.10	0.00	0.00	0.00
7,800.00	11.94	280.05	7,744.08	100.59	-567.48	-28.11	0.00	0.00	0.00
7,900.00	11.94	280.05	7,841.92	104.20	-587.85	-29.12	0.00	0.00	0.00
8,000.00	11.94	280.05	7,939.76	107.81	-608.21	-30.13	0.00	0.00	0.00
8,100.00	11.94	280.05	8,037.59	111.42	-628.58	-31.14	0.00	0.00	0.00
8,200.00	11.94	280.05	8,135.43	115.03	-648.95	-32.14	0.00	0.00	0.00
8,300.00	11.94	280.05	8,233.27	118.64	-669.31	-33.15	0.00	0.00	0.00
8,400.00	11.94	280.05	8,331.11	122.25	-689.68	-34.16	0.00	0.00	0.00
8,500.00	11.94	280.05	8,428.94	125.86	-710.05	-35.17	0.00	0.00	0.00
8,600.00	11.94	280.05	8,526.78	129.47	-730.42	-36.18	0.00	0.00	0.00
8,700.00	11.94	280.05	8,624.62	133.08	-750.78	-37.19	0.00	0.00	0.00
8,800.00	11.94	280.05	8,722.46	136.69	-771.15	-38.20	0.00	0.00	0.00
8,900.00	11.94	280.05	8,820.29	140.30	-791.52	-39.21	0.00	0.00	0.00
9,000.00	11.94	280.05	8,918.13	143.91	-811.88	-40.21	0.00	0.00	0.00
9,100.00	11.94	280.05	9,015.97	147.52	-832.25	-41.22	0.00	0.00	0.00
9,200.00	11.94	280.05	9,113.81	151.13	-852.62	-42.23	0.00	0.00	0.00
9,300.00	11.94	280.05	9,211.64	154.74	-872.98	-43.24	0.00	0.00	0.00
9,400.00	11.94	280.05	9,309.48	158.35	-893.35	-44.25	0.00	0.00	0.00
9,408.91	11.94	280.05	9,318.20	158.67	-895.16	-44.34	0.00	0.00	0.00
9,500.00	13.64	238.69	9,407.21	154.72	-913.66	-38.09	10.00	1.87	-45.41
9,600.00	20.55	213.40	9,502.86	133.89	-933.44	-14.92	10.00	6.91	-25.29
9,700.00	29.25	201.50	9,593.53	96.41	-952.10	24.61	10.00	8.70	-11.90
9,800.00	38.54	194.83	9,676.47	43.43	-969.07	79.31	10.00	9.30	-6.67
9,900.00	48.09	190.46	9,749.16	-23.45	-983.84	147.52	10.00	9.54	-4.37
10,000.00	57.76	187.24	9,809.39	-102.20	-995.95	227.16	10.00	9.67	-3.22
10,100.00	67.49	184.64	9,855.33	-190.41	-1,005.05	315.82	10.00	9.73	-2.59
10,200.00	77.26	182.40	9,885.58	-285.42	-1,010.84	410.80	10.00	9.77	-2.25
10,300.00	87.04	180.32	9,899.22	-384.33	-1,013.16	509.21	10.00	9.79	-2.08
10,330.21	90.00	179.70	9,900.00	-414.52	-1,013.16	539.16	10.00	9.79	-2.04
10,400.00	90.00	179.70	9,900.00	-484.31	-1,012.80	608.35	0.00	0.00	0.00
10,500.00	90.00	179.70	9,900.00	-584.31	-1,012.27	707.48	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,600.00	90.00	179.70	9,900.00	-684.31	-1,011.75	806.61	0.00	0.00	0.00	
10,700.00	90.00	179.70	9,900.00	-784.31	-1,011.23	905.74	0.00	0.00	0.00	
10,800.00	90.00	179.70	9,900.00	-884.31	-1,010.70	1,004.87	0.00	0.00	0.00	
10,900.00	90.00	179.70	9,900.00	-984.30	-1,010.18	1,104.00	0.00	0.00	0.00	
11,000.00	90.00	179.70	9,900.00	-1,084.30	-1,009.65	1,203.14	0.00	0.00	0.00	
11,100.00	90.00	179.70	9,900.00	-1,184.30	-1,009.13	1,302.27	0.00	0.00	0.00	
11,200.00	90.00	179.70	9,900.00	-1,284.30	-1,008.61	1,401.40	0.00	0.00	0.00	
11,300.00	90.00	179.70	9,900.00	-1,384.30	-1,008.08	1,500.53	0.00	0.00	0.00	
11,400.00	90.00	179.70	9,900.00	-1,484.30	-1,007.56	1,599.66	0.00	0.00	0.00	
11,500.00	90.00	179.70	9,900.00	-1,584.30	-1,007.03	1,698.79	0.00	0.00	0.00	
11,600.00	90.00	179.70	9,900.00	-1,684.29	-1,006.51	1,797.93	0.00	0.00	0.00	
11,700.00	90.00	179.70	9,900.00	-1,784.29	-1,005.99	1,897.06	0.00	0.00	0.00	
11,800.00	90.00	179.70	9,900.00	-1,884.29	-1,005.46	1,996.19	0.00	0.00	0.00	
11,900.00	90.00	179.70	9,900.00	-1,984.29	-1,004.94	2,095.32	0.00	0.00	0.00	
12,000.00	90.00	179.70	9,900.00	-2,084.29	-1,004.41	2,194.45	0.00	0.00	0.00	
12,100.00	90.00	179.70	9,900.00	-2,184.29	-1,003.89	2,293.59	0.00	0.00	0.00	
12,200.00	90.00	179.70	9,900.00	-2,284.29	-1,003.37	2,392.72	0.00	0.00	0.00	
12,300.00	90.00	179.70	9,900.00	-2,384.29	-1,002.84	2,491.85	0.00	0.00	0.00	
12,400.00	90.00	179.70	9,900.00	-2,484.28	-1,002.32	2,590.98	0.00	0.00	0.00	
12,500.00	90.00	179.70	9,900.00	-2,584.28	-1,001.79	2,690.11	0.00	0.00	0.00	
12,600.00	90.00	179.70	9,900.00	-2,684.28	-1,001.27	2,789.24	0.00	0.00	0.00	
12,700.00	90.00	179.70	9,900.00	-2,784.28	-1,000.75	2,888.38	0.00	0.00	0.00	
12,800.00	90.00	179.70	9,900.00	-2,884.28	-1,000.22	2,987.51	0.00	0.00	0.00	
12,900.00	90.00	179.70	9,900.00	-2,984.28	-999.70	3,086.64	0.00	0.00	0.00	
13,000.00	90.00	179.70	9,900.00	-3,084.28	-999.17	3,185.77	0.00	0.00	0.00	
13,100.00	90.00	179.70	9,900.00	-3,184.27	-998.65	3,284.90	0.00	0.00	0.00	
13,200.00	90.00	179.70	9,900.00	-3,284.27	-998.13	3,384.03	0.00	0.00	0.00	
13,300.00	90.00	179.70	9,900.00	-3,384.27	-997.60	3,483.17	0.00	0.00	0.00	
13,400.00	90.00	179.70	9,900.00	-3,484.27	-997.08	3,582.30	0.00	0.00	0.00	
13,500.00	90.00	179.70	9,900.00	-3,584.27	-996.55	3,681.43	0.00	0.00	0.00	
13,600.00	90.00	179.70	9,900.00	-3,684.27	-996.03	3,780.56	0.00	0.00	0.00	
13,700.00	90.00	179.70	9,900.00	-3,784.27	-995.51	3,879.69	0.00	0.00	0.00	
13,800.00	90.00	179.70	9,900.00	-3,884.26	-994.98	3,978.82	0.00	0.00	0.00	
13,900.00	90.00	179.70	9,900.00	-3,984.26	-994.46	4,077.96	0.00	0.00	0.00	
14,000.00	90.00	179.70	9,900.00	-4,084.26	-993.93	4,177.09	0.00	0.00	0.00	
14,100.00	90.00	179.70	9,900.00	-4,184.26	-993.41	4,276.22	0.00	0.00	0.00	
14,200.00	90.00	179.70	9,900.00	-4,284.26	-992.89	4,375.35	0.00	0.00	0.00	
14,300.00	90.00	179.70	9,900.00	-4,384.26	-992.36	4,474.48	0.00	0.00	0.00	
14,400.00	90.00	179.70	9,900.00	-4,484.26	-991.84	4,573.61	0.00	0.00	0.00	
14,500.00	90.00	179.70	9,900.00	-4,584.25	-991.31	4,672.75	0.00	0.00	0.00	
14,600.00	90.00	179.70	9,900.00	-4,684.25	-990.79	4,771.88	0.00	0.00	0.00	
14,700.00	90.00	179.70	9,900.00	-4,784.25	-990.27	4,871.01	0.00	0.00	0.00	
14,800.00	90.00	179.70	9,900.00	-4,884.25	-989.74	4,970.14	0.00	0.00	0.00	
14,900.00	90.00	179.70	9,900.00	-4,984.25	-989.22	5,069.27	0.00	0.00	0.00	
15,000.00	90.00	179.70	9,900.00	-5,084.25	-988.69	5,168.40	0.00	0.00	0.00	
15,100.00	90.00	179.70	9,900.00	-5,184.25	-988.17	5,267.54	0.00	0.00	0.00	
15,200.00	90.00	179.70	9,900.00	-5,284.25	-987.65	5,366.67	0.00	0.00	0.00	
15,300.00	90.00	179.70	9,900.00	-5,384.24	-987.12	5,465.80	0.00	0.00	0.00	
15,400.00	90.00	179.70	9,900.00	-5,484.24	-986.60	5,564.93	0.00	0.00	0.00	
15,500.00	90.00	179.70	9,900.00	-5,584.24	-986.07	5,664.06	0.00	0.00	0.00	
15,600.00	90.00	179.70	9,900.00	-5,684.24	-985.55	5,763.20	0.00	0.00	0.00	
15,700.00	90.00	179.70	9,900.00	-5,784.24	-985.03	5,862.33	0.00	0.00	0.00	
15,800.00	90.00	179.70	9,900.00	-5,884.24	-984.50	5,961.46	0.00	0.00	0.00	
15,900.00	90.00	179.70	9,900.00	-5,984.24	-983.98	6,060.59	0.00	0.00	0.00	
16,000.00	90.00	179.70	9,900.00	-6,084.23	-983.45	6,159.72	0.00	0.00	0.00	

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
16,100.00	90.00	179.70	9,900.00	-6,184.23	-982.93	6,258.85	0.00	0.00	0.00	
16,200.00	90.00	179.70	9,900.00	-6,284.23	-982.41	6,357.99	0.00	0.00	0.00	
16,300.00	90.00	179.70	9,900.00	-6,384.23	-981.88	6,457.12	0.00	0.00	0.00	
16,400.00	90.00	179.70	9,900.00	-6,484.23	-981.36	6,556.25	0.00	0.00	0.00	
16,500.00	90.00	179.70	9,900.00	-6,584.23	-980.83	6,655.38	0.00	0.00	0.00	
16,600.00	90.00	179.70	9,900.00	-6,684.23	-980.31	6,754.51	0.00	0.00	0.00	
16,700.00	90.00	179.70	9,900.00	-6,784.22	-979.79	6,853.64	0.00	0.00	0.00	
16,800.00	90.00	179.70	9,900.00	-6,884.22	-979.26	6,952.78	0.00	0.00	0.00	
16,900.00	90.00	179.70	9,900.00	-6,984.22	-978.74	7,051.91	0.00	0.00	0.00	
17,000.00	90.00	179.70	9,900.00	-7,084.22	-978.21	7,151.04	0.00	0.00	0.00	
17,100.00	90.00	179.70	9,900.00	-7,184.22	-977.69	7,250.17	0.00	0.00	0.00	
17,200.00	90.00	179.70	9,900.00	-7,284.22	-977.17	7,349.30	0.00	0.00	0.00	
17,300.00	90.00	179.70	9,900.00	-7,384.22	-976.64	7,448.43	0.00	0.00	0.00	
17,400.00	90.00	179.70	9,900.00	-7,484.22	-976.12	7,547.57	0.00	0.00	0.00	
17,500.00	90.00	179.70	9,900.00	-7,584.21	-975.59	7,646.70	0.00	0.00	0.00	
17,574.77	90.00	179.70	9,900.00	-7,658.98	-975.20	7,720.82	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- Shape										
KOP (Stressed	0.00	0.00	0.00	185.47	-1,016.34	522,467.37	725,134.44	32.434920	-103.737593	
- plan misses target center by 1033.13ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL (Stressed	0.00	0.00	9,900.00	-7,658.98	-975.20	514,623.34	725,175.58	32.413358	-103.737601	
- plan hits target center										
- Point										
FTP (Stressed	0.00	0.00	9,900.00	135.47	-1,016.04	522,417.37	725,134.74	32.434782	-103.737593	
- plan misses target center by 221.46ft at 9900.00ft MD (9749.16 TVD, -23.45 N, -983.84 E)										
- Point										

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
740.00	740.00	RUSTLER				
1,034.00	1,034.00	SALADO				
2,628.00	2,628.00	CASTILE				
4,369.00	4,369.00	DELAWARE				
4,464.00	4,464.00	BELL CANYON				
5,308.57	5,305.00	CHERRY CANYON				
6,652.09	6,621.00	BRUSHY CANYON				
8,400.91	8,332.00	BONE SPRING				
9,492.59	9,400.00	BONE SPRING 1ST				

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stressed Desserts 36_1 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3595.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3595.00ft
Site:	Stressed Desserts 36_1 Fed Com	North Reference:	Grid
Well:	Stressed Desserts 36_1 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,419.00	4,419.00	0.00	0.00	Build 1°/100'
5,612.74	5,604.12	21.63	-122.01	Hold 11.94° Tangent
9,408.91	9,318.20	158.67	-895.16	KOP, Build 10°/100'
10,330.21	9,900.00	-414.52	-1,013.16	Landing Point
17,574.77	9,900.00	-7,658.98	-975.20	TD at 17574.77' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC.
WELL NAME & NO.: STRESSED DESSERTS 36 1 FEDERAL COM 1H
LOCATION: Sec 36, T21S, R31E
COUNTY: Eddy County, New Mexico ▼

COA

H ₂ S	<input type="radio"/> No		<input checked="" type="radio"/> Yes	
Potash / WIPP	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-Q	<input checked="" type="checkbox"/> Open Annulus 4-String Design: Open 1st Int x 2nd Annulus (ICP 2 below Relief Zone) <input type="checkbox"/> WIPP
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input checked="" type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **800** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the

- lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **10-3/4** inch intermediate salt protection casing shall be set at approximately **50'** prior to entering the Delaware group. ***Please set Salt Protection string prior to entering hydrocarbon bearing zone. Well needs to be kept vertical till past the MB 126.*** The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 3. The **7-5/8** inch second intermediate casing shall be set at approximately **9309** feet. ***PLEASE REVIEW EXTERNAL PRESSURE FOR PRESSURE TEST. PLEASE KEEP CASING FULL FOR COLLAPSE SF.*** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Primary + Post Frac Bradenhead):

- Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ **A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days**.

Operator has proposed to pump down **intermediate 1 x intermediate 2** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The 5-1/2 inch production casing shall be set at approximately 17,575 feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back 500 feet into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all

working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Approved for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

Overlap clearance OK.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;

BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI -12/29/2024



Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H₂S) gas.

While drilling this well, it is possible to encounter H₂S bearing formations. At all times, the first barrier to control H₂S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

1. Provide an immediate and predetermined response plan to any condition when H₂S is detected. All H₂S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
3. Provide proper evacuation procedures to cope with emergencies.
4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

1. The hazards and characteristics of H₂S.
2. Proper use and maintenance of personal protective equipment and life support systems.
3. H₂S detection.
4. Proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
5. Proper techniques for first aid and rescue procedures.
6. Physical effects of hydrogen sulfide on the human body.
7. Toxicity of hydrogen sulfide and sulfur dioxide.
8. Use of SCBA and supplied air equipment.
9. First aid and artificial respiration.
10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan.

H₂S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H₂S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H₂S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H₂S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground.
Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. Protective equipment for personnel

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H₂S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H₂S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. Visual Warning Systems

- A. One sign located at each location entrance with the following language:

**Caution – potential poison gas
Hydrogen sulfide
No admittance without authorization**

Wind sock – wind streamers:

- A. One 36” (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36” (in length) wind sock located at height visible from pit areas.

Condition flags

- A. One each condition flag to be displayed to denote conditions.

green – normal conditions

yellow – potential danger

red – danger, H2S present

- B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. Metallurgy

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. Designated area

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H₂S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H₂S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
 - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
3. Notify public safety personnel of safe briefing / muster area.
4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

- All personnel:
1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
 2. Check status of personnel (buddy system).
 3. Secure breathing equipment.
 4. Await orders from supervisor.

- Drill site manager:
1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
 3. Determine H2S concentrations.
 4. Assess situation and take control measures.

- Tool pusher:
1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
 3. Determine H2S concentration.
 4. Assess situation and take control measures.

- Driller:
1. Don escape unit, shut down pumps, continue

- rotating DP.
 - 2. Check monitor for point of release.
 - 3. Report to nearest upwind designated safe briefing / muster area.
 - 4. Check status of personnel (in an attempt to rescue, use the buddy system).
 - 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
 - 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
- Derrick man
- Floor man #1
- Floor man #2
- Mud engineer:
- 1. Will remain in briefing / muster area until instructed by supervisor.
- 1. Report to nearest upwind designated safe briefing / muster area.
 - 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
- Safety personnel:
- 1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same “tripping” procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

1. Human life and property are endangered.
2. There is no hope controlling the blowout under the prevailing conditions at the well.

Instructions for igniting the well

1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
3. Ignite upwind and do not approach any closer than is warranted.
4. Select the ignition site best for protection, and which offers an easy escape route.
5. Before firing, check for presence of combustible gas.
6. After lighting, continue emergency action and procedure as before.
7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

Remember: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **Do not assume the area is safe after the well is ignited.**

Status check list

Note: All items on this list must be completed before drilling to production casing point.

1. H2S sign at location entrance.
2. Two (2) wind socks located as required.
3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
4. Air packs inspected and ready for use.
5. Cascade system and hose line hook-up as needed.
6. Cascade system for refilling air bottles as needed.
7. Condition flag on location and ready for use.
8. H2S detection system hooked up and tested.
9. H2S alarm system hooked up and tested.
10. Hand operated H2S detector with tubes on location.
11. 1 – 100' length of nylon rope on location.
12. All rig crew and supervisors trained as required.
13. All outside service contractors advised of potential H2S hazard on well.
14. No smoking sign posted and a designated smoking area identified.
15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by: _____ Date: _____

Procedural check list during H2S events

Perform each tour:

1. Check fire extinguishers to see that they have the proper charge.
2. Check breathing equipment to ensure that it is in proper working order.
3. Make sure all the H2S detection system is operative.

Perform each week:

1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
2. BOP skills (well control drills).
3. Check supply pressure on BOP accumulator stand by source.
4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
6. Confirm pressure on all supply air bottles.
7. Perform breathing equipment drills with on-site personnel.
8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

Important: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

1. Evacuate all personnel to “Safe Briefing / Muster Areas” or off location if needed.
2. If sour gas – evacuate rig personnel.
3. If sour gas – evacuate public within 3000 ft radius of exposure.
4. Don SCBA and shut well in if possible using the buddy system.
5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
6. Give first aid as needed.

Person down location/facility

1. If immediately possible, contact 911. Give location and wait for confirmation.
2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i
Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustible above 5% in air	

- 1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit – concentration that will cause death with short-term exposure.
- 3) lethal concentration – concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii
Physical effects of hydrogen sulfide

Percent (%)	Ppm	Concentration Grains 100 std. Ft3*	Physical effects
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in 3 – 15 minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
2. SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
3. Anyone who may use the SCBA's shall be trained in how to insure proper face-piece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 1. Inspection for defects, including leak checks.
 2. Cleaning and disinfecting.
 3. Repair.
 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 1. Fully charged cylinders.
 2. Regulator and warning device operation.
 3. Condition of face piece and connections.
 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H₂S.

- B. When breaking out any line where H₂S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H₂S exists.
- D. When working in areas where over 10 ppm H₂S has been detected.
- E. At any time there is a doubt as to the H₂S level in the area to be entered.

Rescue
First aid for H₂S poisoning

Do not panic!

Remain calm – think!

1. Don SCBA breathing equipment.
2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
3. Briefly apply chest pressure – arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H₂S gas poisoning – no matter how remote the possibility is.
6. Notify emergency room personnel that the victim(s) has been exposed to H₂S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD

SEC. 36 TWP. 21-S RGE. 31-E

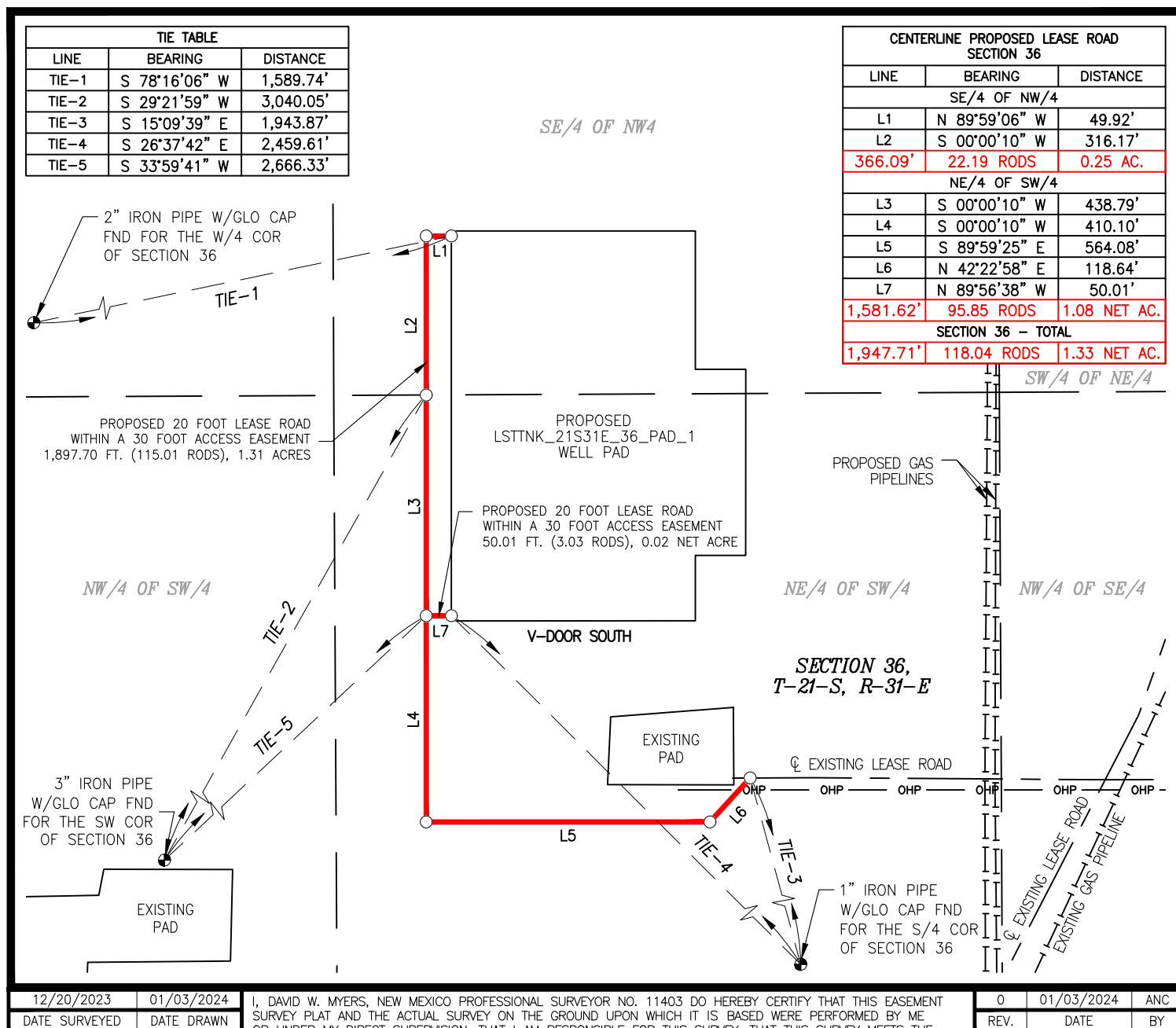
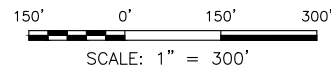
SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



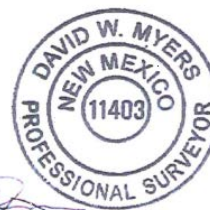
BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518°.

LEGEND			
	EXISTING ROAD		OHP — OVERHEAD POWER FENCE
	PROPOSED ROAD		SECTION LINE
	SURFACE SITE EDGE		PROPERTY LINE
	EXIST. PIPELINE		WATER LINE
	MONUMENT		SALT WATER LINE
	QUARTER SPLIT		

JANUARY 19, 2024

DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 1 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD
SEC. 21 TWP. 21-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

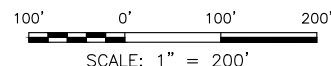
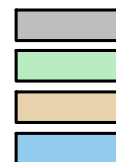
FAA PERMIT NEEDED: NO

TANK BATTERY

RECLAMATION

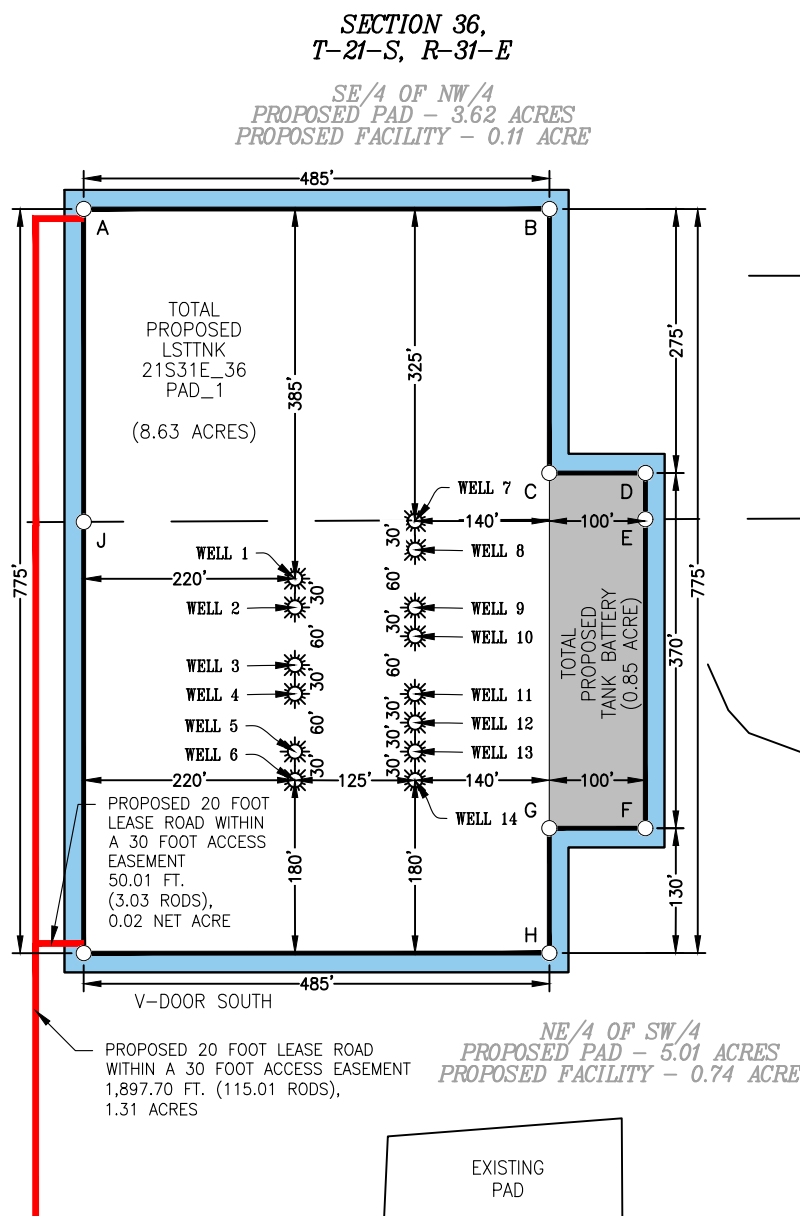
30' TOP SOIL

20' DISTURBANCE AREA



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B	E:(X)726415.80 N:(Y)522847.05	LAT:32.43594359 LON:-103.73343247
C	E:(X)726415.76 N:(Y)522572.13	LAT:32.43518794 LON:-103.73343762
D	E:(X)726515.81 N:(Y)522572.03	LAT:32.43518611 LON:-103.73311333
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F	E:(X)726515.69 N:(Y)522202.10	LAT:32.43416931 LON:-103.73312045
G	E:(X)726415.70 N:(Y)522202.08	LAT:32.43417079 LON:-103.73344455
H	E:(X)726415.68 N:(Y)522071.95	LAT:32.43381312 LON:-103.73344698
I	E:(X)725930.73 N:(Y)522071.92	LAT:32.43382051 LON:-103.73501875
J	E:(X)725930.70 N:(Y)522521.12	LAT:32.43505520 LON:-103.73501069

NAD 27		
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B	E:(X)685233.99 N:(Y)522786.14	LAT:32.43582122 LON:-103.73294160
C	E:(X)685233.94 N:(Y)522511.22	LAT:32.43506556 LON:-103.73294677
D	E:(X)685333.99 N:(Y)522511.12	LAT:32.43506374 LON:-103.73262250
E	E:(X)685333.98 N:(Y)522462.96	LAT:32.43493136 LON:-103.73262342
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12/20/2023	01/03/2024
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

0	01/03/2024	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518'.

LEGEND

LEGEND

— — — — —	EXISTING ROAD	— — — — —	OHP	OVERHEAD POWER
— — — — —	PROPOSED ROAD	— x — x —	FENCE	
— — — — —	SURFACE SITE EDGE	— — — — —	SECTION LINE	
— — — — —	EXIST. PIPELINE	— — — — —	PROPERTY LINE	
		— — — — —	W	WATER LINE
		— — — — —	SWD	SALT WATER LINE

 MONUMENT
 QUARTER SPLIT

Released to Imaging: 6/20/2025 2:40:54 PM

JANUARY 19, 2024



DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 2 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD

SEC. 36 TWP. 21-S RGE. 31-E

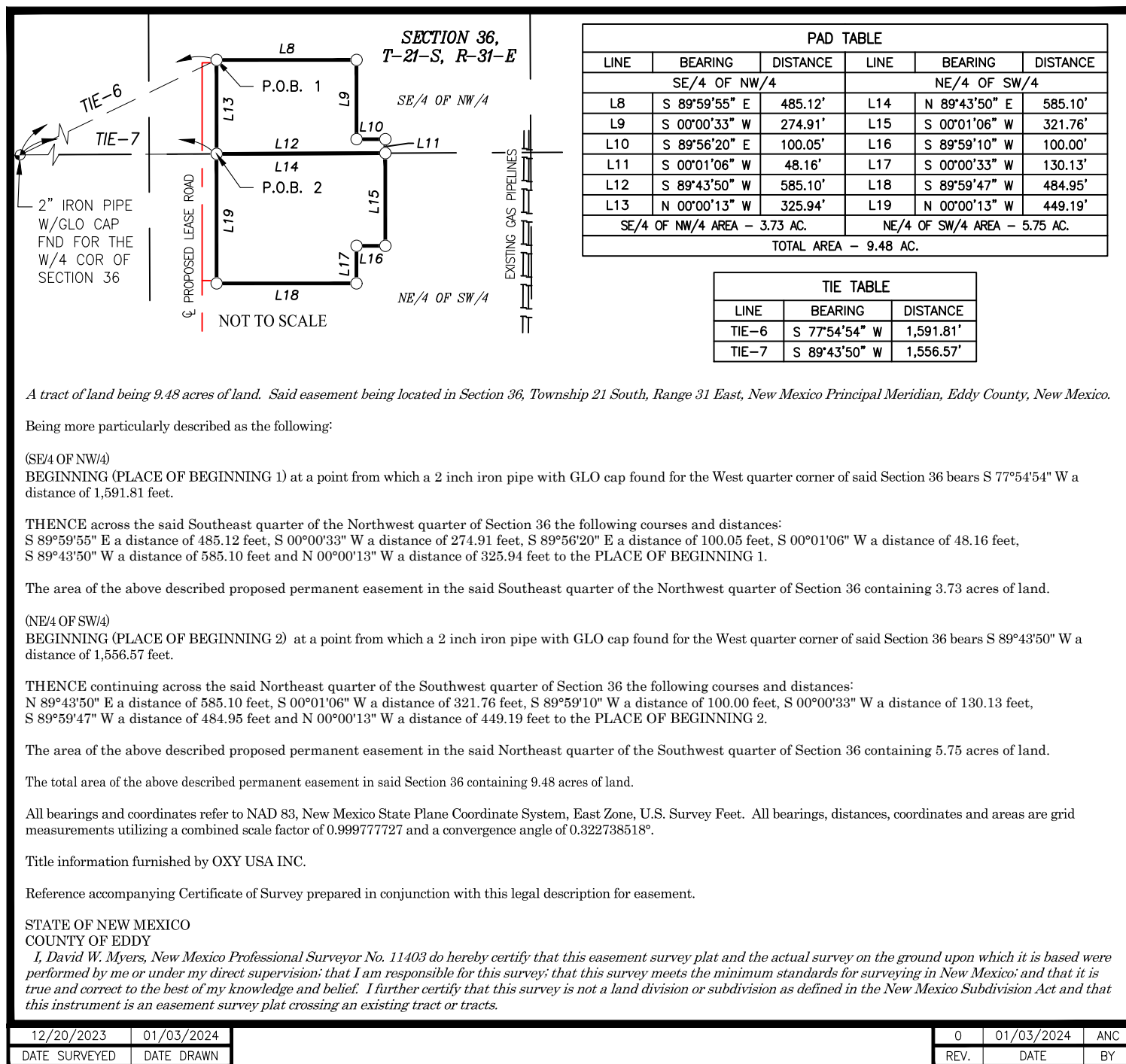
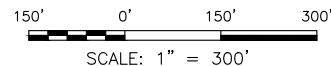
SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

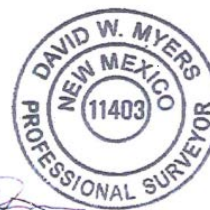
FAA PERMIT NEEDED: NO



LEGEND			
	EXISTING ROAD		OHP
	PROPOSED ROAD		OVERHEAD POWER
	SURFACE SITE EDGE		FENCE
	EXIST. PIPELINE		SECTION LINE
	MONUMENT		PROPERTY LINE
	QUARTER SPLIT		WATER LINE
			SALT WATER LINE

JANUARY 19, 2024

DAVID W. MYERS 11403



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 3 OF 4



SITE PLAN

STRESSED DESSERTS 36_1 FED COM
(LSTTNK_21S32E_36_PAD 01) WELL PAD
SEC. 36 TWP. 21-S RGE. 31-E
SURVEY: N.M.P.M.

COUNTY: EDDY
OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

FAA PERMIT NEEDED: NO



WELL 1
STRESSED DESSERTS 36_1 FED COM 21H
OXY USA, INC.
2,583' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.83' / Y:522461.97'
LAT:32.43488923N / LON:103.73429829W
NAD 27, SPCS NM EAST
X:684969.01' / Y:522401.07'
LAT:32.43476686N / LON:103.73380744W
ELEVATION = 3561'

WELL 2
STRESSED DESSERTS 36_1 FED COM 22H
OXY USA, INC.
2,553' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.75' / Y:522432.05'
LAT:32.43480697N / LON:103.73429908W
NAD 27, SPCS NM EAST
X:684968.94' / Y:522371.14'
LAT:32.43468460N / LON:103.73380823W
ELEVATION = 3561'

WELL 3
STRESSED DESSERTS 36_1 FED COM 11H
OXY USA, INC.
2,493' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.66' / Y:522372.00'
LAT:32.43464192N / LON:103.73430047W
NAD 27, SPCS NM EAST
X:684968.84' / Y:522311.09'
LAT:32.43451955N / LON:103.73380962W
ELEVATION = 3563'

WELL 4
STRESSED DESSERTS 36_1 FED COM 12H
OXY USA, INC.
2,463' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.73' / Y:522341.98'
LAT:32.43455942N / LON:103.73430080W
NAD 27, SPCS NM EAST
X:684968.91' / Y:522281.08'
LAT:32.43443705N / LON:103.73380996W
ELEVATION = 3565'

WELL 5
STRESSED DESSERTS 36_1 FED COM 1H
OXY USA, INC.
2,403' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.73' / Y:522281.91'
LAT:32.43439431N / LON:103.73430190W
NAD 27, SPCS NM EAST
X:684968.90' / Y:522221.01'
LAT:32.43427194N / LON:103.73381106W
ELEVATION = 3570'

WELL 6
STRESSED DESSERTS 36_1 FED COM 2H
OXY USA, INC.
2,373' FSL 1,776' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726150.76' / Y:522252.11'
LAT:32.43431239N / LON:103.73430234W
NAD 27, SPCS NM EAST
X:684968.93' / Y:522191.21'
LAT:32.43419002N / LON:103.73381150W
ELEVATION = 3576'

WELL 7
STRESSED DESSERTS 36_1 FED COM 41H
OXY USA, INC.
2,642' FSL 1,902' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.77' / Y:522522.03'
LAT:32.43505239N / LON:103.73389226W
NAD 27, SPCS NM EAST
X:685093.95' / Y:522461.13'
LAT:32.43493002N / LON:103.73340141W
ELEVATION = 3563'

WELL 8
STRESSED DESSERTS 36_1 FED COM 42H
OXY USA, INC.
2,612' FSL 1,902' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.87' / Y:522492.03'
LAT:32.43496992N / LON:103.73389247W
NAD 27, SPCS NM EAST
X:685094.05' / Y:522431.12'
LAT:32.43484755N / LON:103.73340163W
ELEVATION = 3564'

WELL 9
STRESSED DESSERTS 36_1 FED COM 71H
OXY USA, INC.
2,552' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522431.96'
LAT:32.43480480N / LON:103.73389380W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522371.05'
LAT:32.43468243N / LON:103.73340296W
ELEVATION = 3565'

WELL 10
STRESSED DESSERTS 36_1 FED COM 72H
OXY USA, INC.
2,522' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.83' / Y:522402.01'
LAT:32.43472250N / LON:103.73389422W
NAD 27, SPCS NM EAST
X:685094.01' / Y:522341.11'
LAT:32.43460012N / LON:103.73340339W
ELEVATION = 3565'

WELL 11
STRESSED DESSERTS 36_1 FED COM 31H
OXY USA, INC.
2,462' FSL 1,901' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.74' / Y:522341.86'
LAT:32.43455717N / LON:103.73389561W
NAD 27, SPCS NM EAST
X:685093.92' / Y:522280.96'
LAT:32.43443479N / LON:103.73340478W
ELEVATION = 3565'

WELL 12
STRESSED DESSERTS 36_1 FED COM 32H
OXY USA, INC.
2,432' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.84' / Y:522312.05'
LAT:32.43447521N / LON:103.73389585W
NAD 27, SPCS NM EAST
X:685094.01' / Y:522251.15'
LAT:32.43435284N / LON:103.73340502W
ELEVATION = 3565'

WELL 13
STRESSED DESSERTS 36_1 FED COM 33H
OXY USA, INC.
2,402' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522281.93'
LAT:32.43439242N / LON:103.73389650W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522221.03'
LAT:32.43427004N / LON:103.73340568W
ELEVATION = 3566'

WELL 14
STRESSED DESSERTS 36_1 FED COM 34H
OXY USA, INC.
2,372' FSL 1,900' FWL, SECTION 36
NAD 83, SPCS NM EAST
X:726275.80' / Y:522251.98'
LAT:32.43431011N / LON:103.73389706W
NAD 27, SPCS NM EAST
X:685093.98' / Y:522191.08'
LAT:32.43418773N / LON:103.73340624W
ELEVATION = 3567'

12/20/2023	01/03/2024
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

0	01/03/2024	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999777727 AND A CONVERGENCE ANGLE OF 0.322738518°.

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		F	FENCE
	SURFACE SITE EDGE		PL	SECTION LINE
	EXIST. PIPELINE		W	PROPERTY LINE
	MONUMENT		W	WATER LINE
	QUARTER SPLIT		SWD	SALT WATER LINE

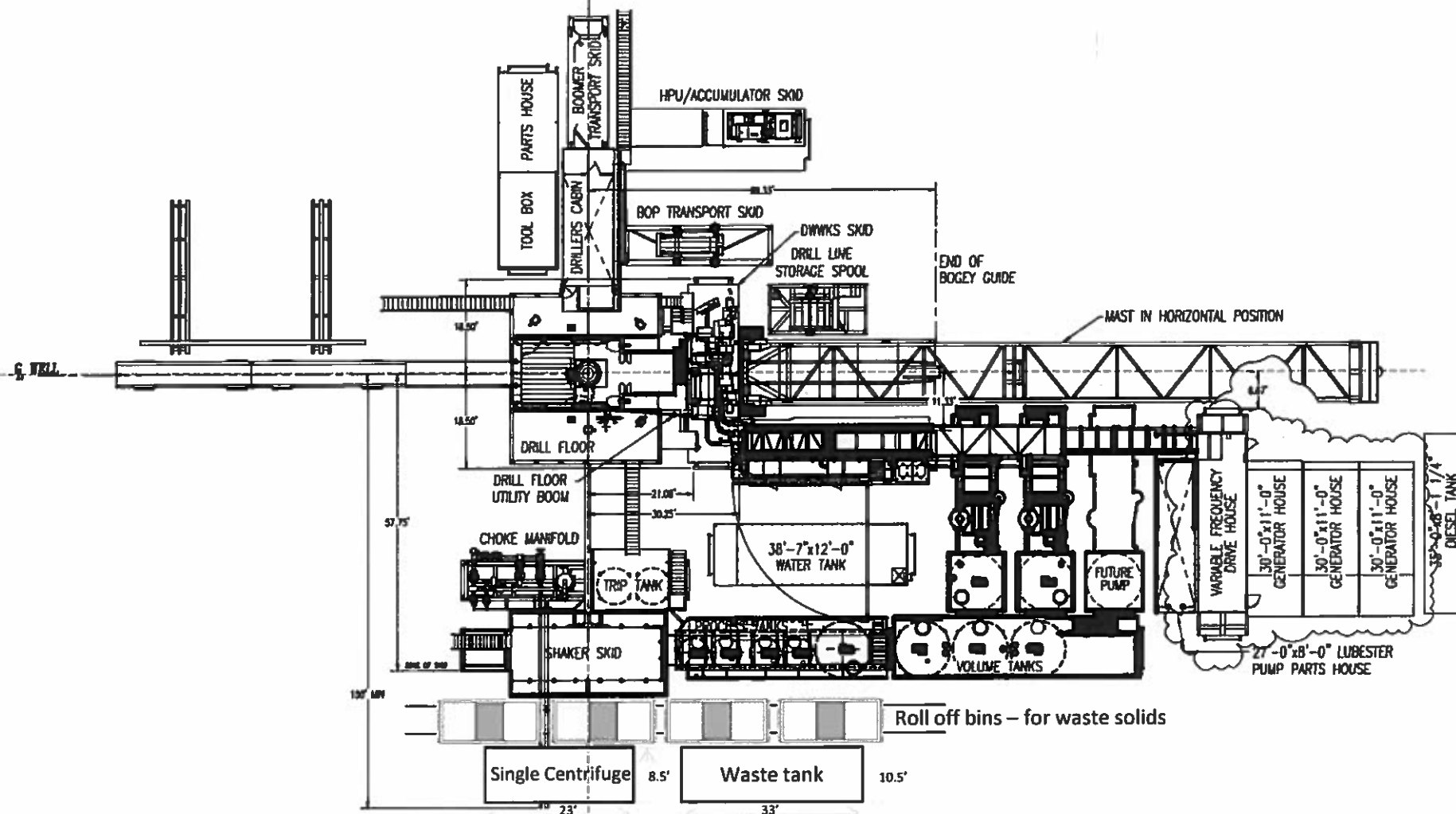
JANUARY 19, 2024

DAVID W. MYERS 11403

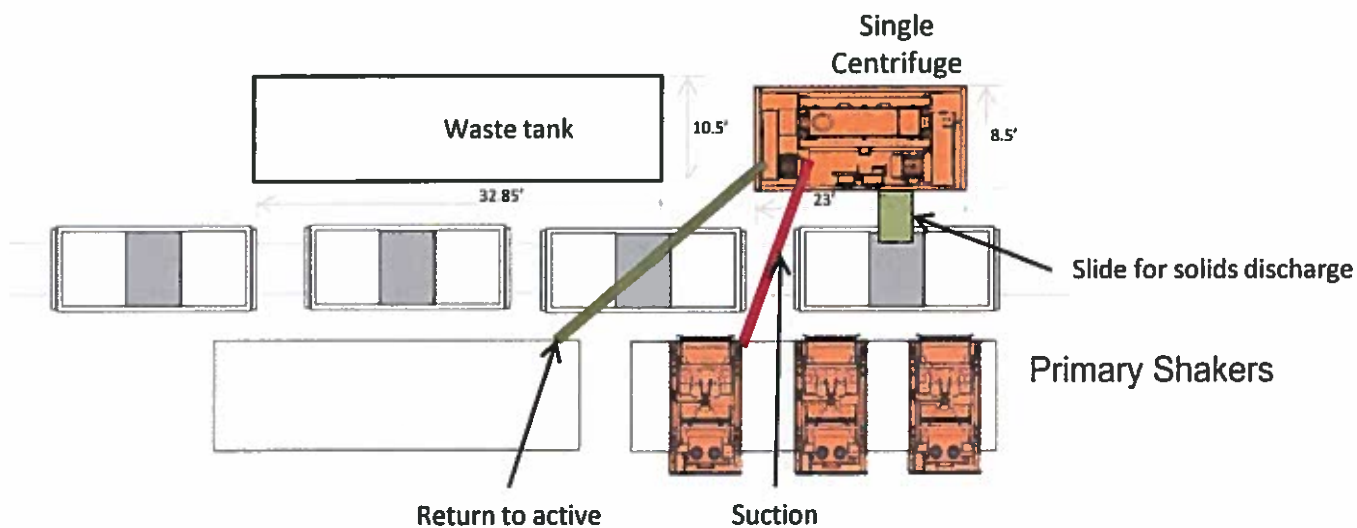


PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0037_SD04
SHEET 4 OF 4

Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013

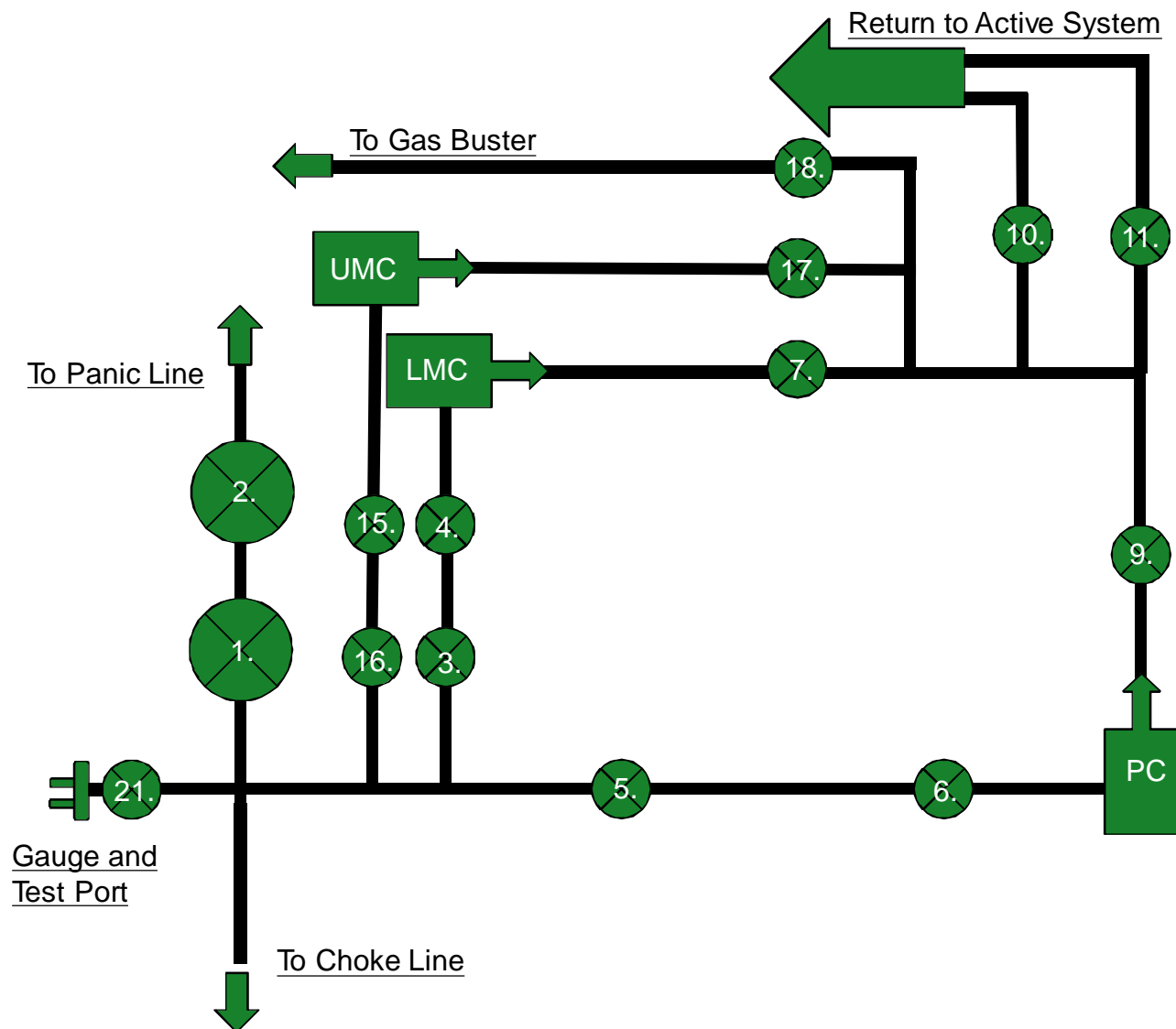


Oxy



Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013

10M Choke Panel

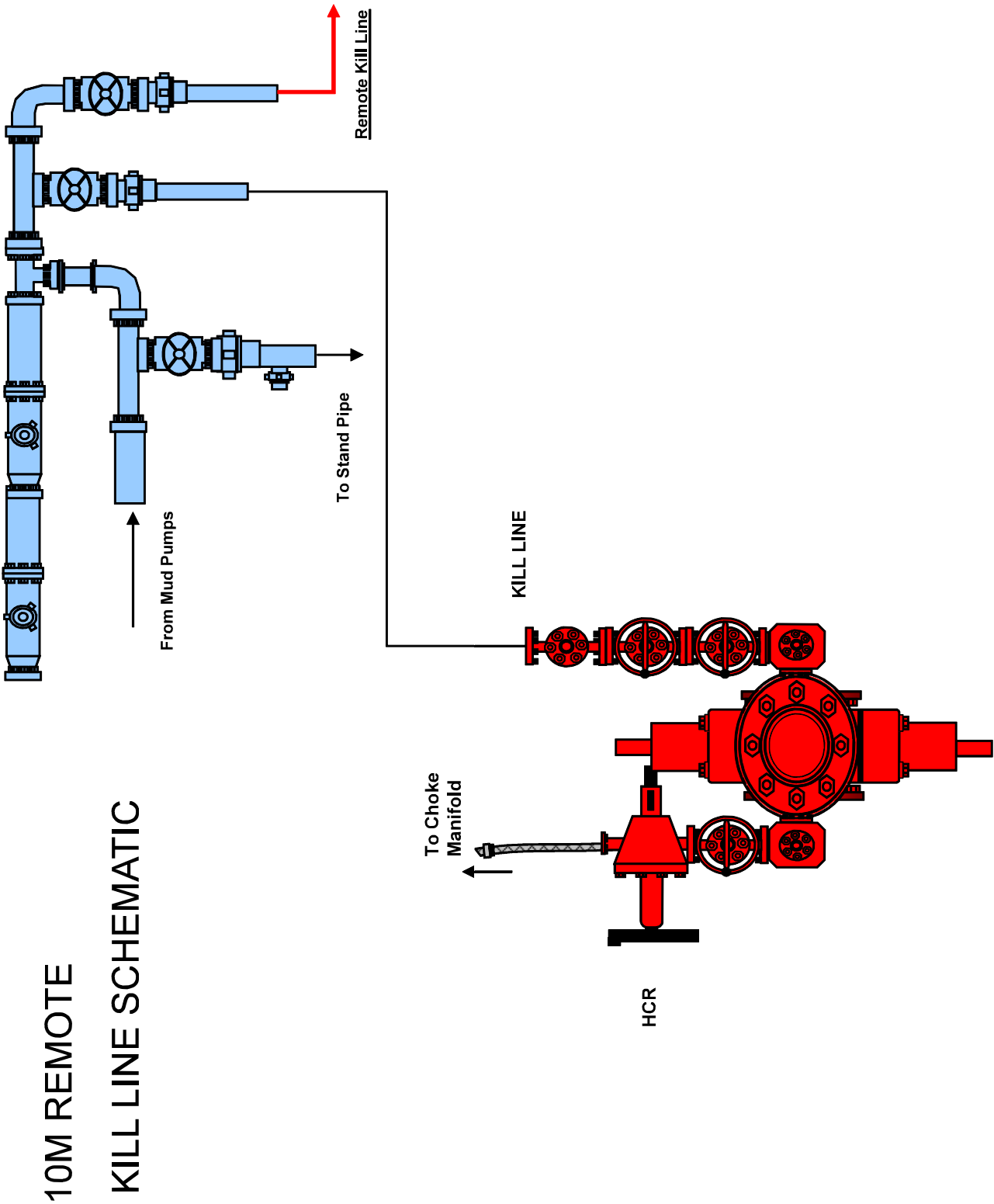


1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. PC – Power Choke
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. LMC – Lower Manual Choke
13. UMC – Upper manual choke
15. Choke Manifold Valve
16. Choke Manifold Valve
17. Choke Manifold Valve
18. Choke Manifold Valve

21. Vertical Choke Manifold Valve

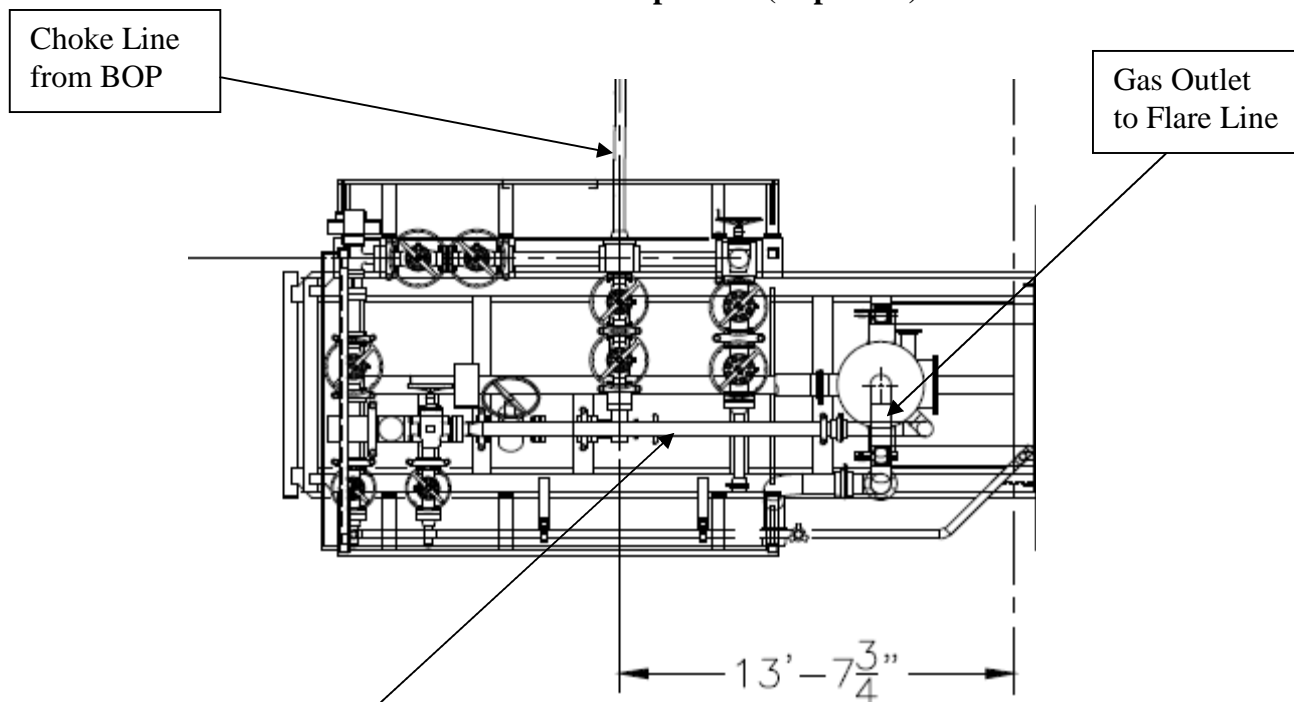
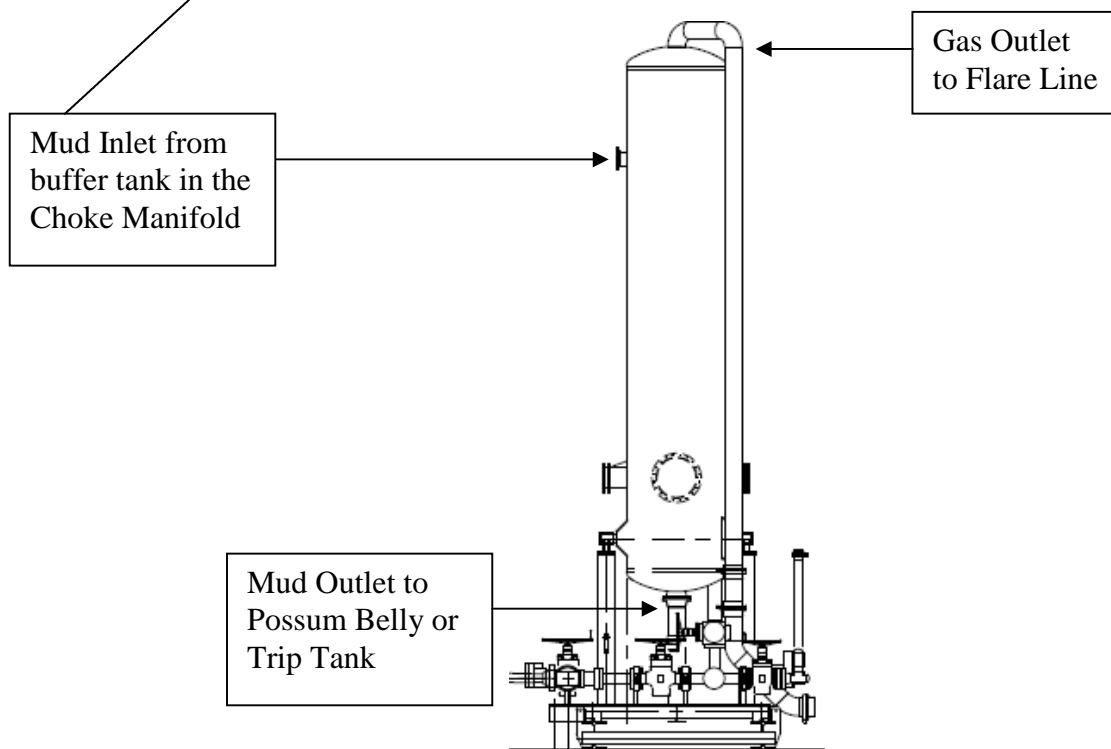
***All Valves 3" minimum**





Gas Separator Routing Flex III Rigs



Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**

**Certificate of Conformity**

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Customer Purchase Order No: 740382384			
Project:			
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 06/27/22		Accepted by Client Inspection

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal



Hydrostatic Test Certificate

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No: 740382384		
Project:		
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 06/27/22	Accepted by Client Inspection

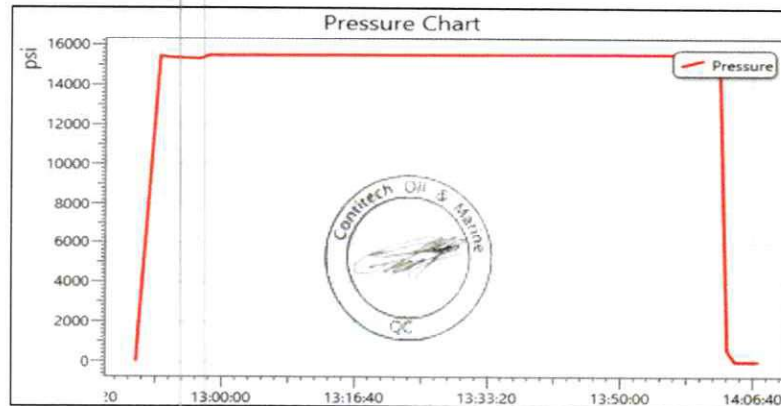
We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
------	----------	-------------	-----	---------------	--------------------	-------------------	---------------------

30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	10,000	15,000	60
----	-----------------	--	---	-------	--------	--------	----

Record Information	
Start Time	6/8/2022 12:49:19
End Time	6/8/2022 14:07:25
Interval	00:01:00
Number	79
MaxValue	15762
MinValue	-7
AvgValue	14395
RecordName	70024-sh
RecordNumber	235

Gauge Information	
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal

SIGNATURE: *Norma Cobb*
 TITLE: QUALITY ASSURANCE
 DATE: 11/20/2019

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
 CUSTOMERS P.O.#: 4128128 (RIG 1 PO 002773)
 CUSTOMER P/N: 10KFR3.012.0CK411610KFIXXFLT SSA SC LE
 PART DESCRIPTION: 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS
 SALES ORDER #: 516982
 QUANTITY: 1
 SERIAL #: H2-112019-4

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CERTIFICATE OF CONFORMANCE

EMAIL: Troy.Schmidt@gates.com

FAX:

PHONE : (281) 602-4119

Houston, TX. 77086

7603 Prairie Oak Dr.

Gates Engineering & Services North America



THIS WROTE 23/22
 IN USE
 AS

02.9
 130021
 2019
 CHOKES
 HOSE



Revision 1_022819

PRODUCTION
11/20/2019
<i>[Signature]</i>

Production:
Date :
Signature :

QUALITY
11/20/2019
<i>[Signature]</i>

F-PRD-005

Quality:
Date :
Signature :

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set forth in the GESNA management system.

Customer: Customer Ref.: Invoice No.:	A-7 AUSTIN INC DBA AUSTIN HOSE 4128128 (RIG 1 PO 002773) 516982	Product Description:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H25 SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS	End Fitting 1:	4 1/16 10K FLANGES FIXED 68903010-9879429 10KFR3.012.0CK411610KFIXXFLT 55A 5C LE	Working Pressure:	4 1/16 10K FLANGES FLOAT L41242 113018 15,000 PSI 10,000 PSI
Test Date:	11/20/2019	Test Pressure:	15,000 PSI	Assembly Code:	L41242 113018	End Fitting 2:	4 1/16 10K FLANGES FLOAT
Hose Serial No.:	H2-112019-4	Created By:	Norma Cabrera				

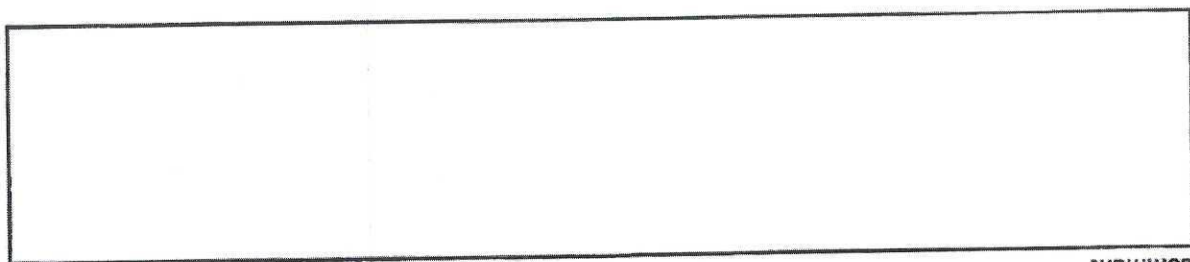
PRESSURE TEST CERTIFICATE

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

GATES ENGINEERING & SERVICES NORTH AMERICA

7603 Prairie Oak Dr.
Houston, TX 77086





Comment

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2019-03-17	2020-03-15
S-25-A-W	110APO2K	2019-04-16	2020-04-14

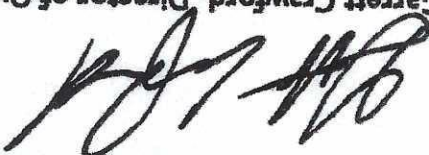
GAUGE TRACEABILITY



TEST REPORT

11/20/2019 12:13:07 PM

H2-1987

Rev Date: 12/17/2019
OF-018-OF, Rev NewGarrett Crawford, Director of Quality
DW Industries Inc.

Certificate Issue Date: 2/27/2020

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
Customer Part Number:	OA-5640-4815-1002-4	Part Description:	3" 10,000 psi WP CHOKE HOSE M X F 4" 1002 HAMMER UNIONS C/W CLAMPS	CONTACT PAUL HOFFMAN FOR INFO	CITADEL DRILLING
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4815-1002-4	Serial Number:	022620DW-2		
Customer Purchase Order Number:		DW Industries Work Order Number:	20020163		
				Customer Contact:	PAUL HOFFMAN 432-241-5360

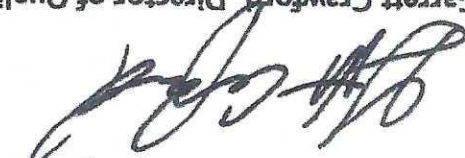
DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

COPY

Certificate of Performance



COPY

QP-018-OF, Rev New
Rev Date: 12/17/2019Garrett Crawford, Director of Quality
DW Industries Inc.

Certificate Issue Date: 2/27/2020

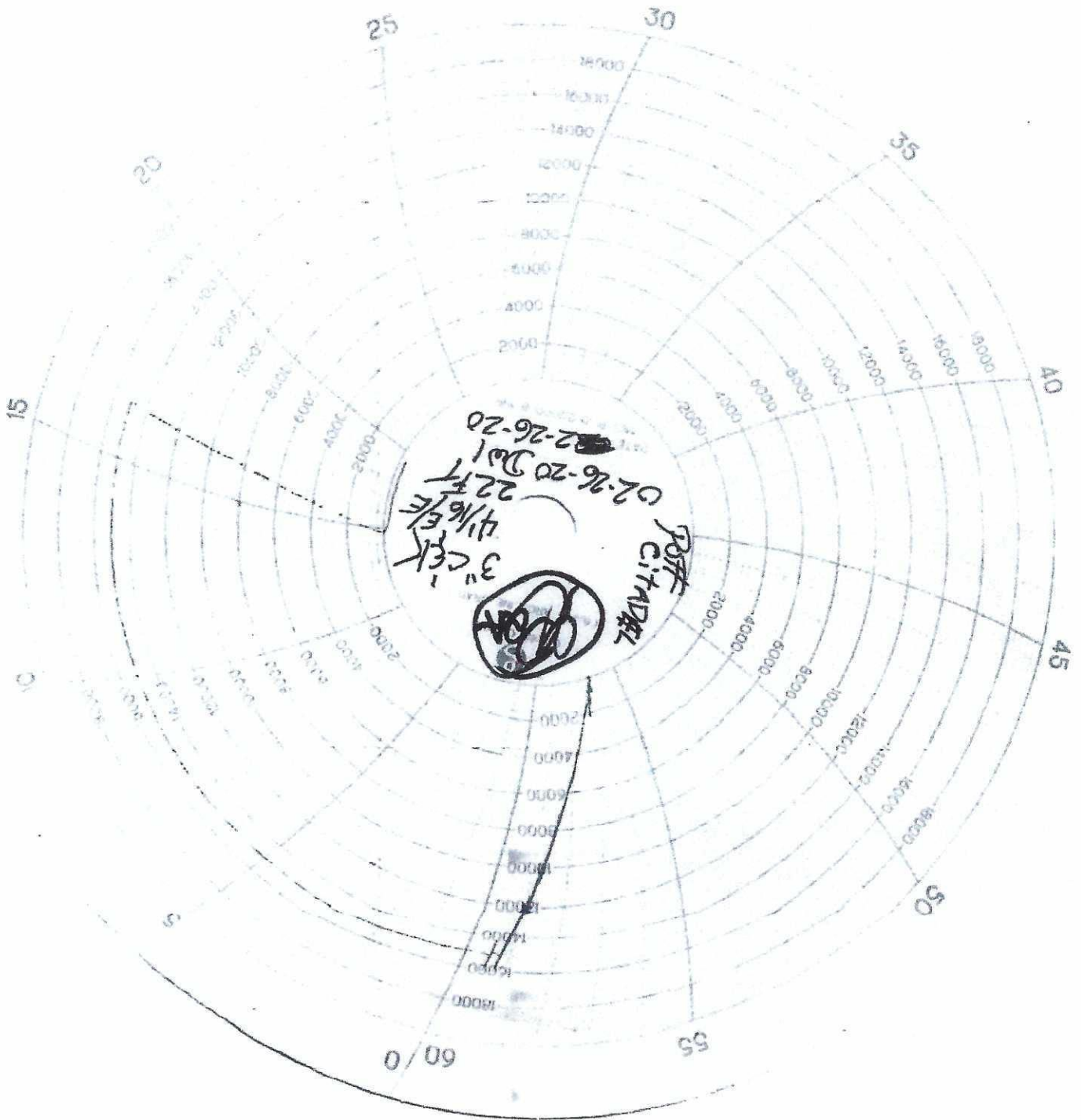
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
Customer Part Number:	OA-5640-4822-4-1/16FXFL-ALE	Part Description:	3" 10,000 PSI WP CHOKE HOSE 4-1/16" FIXED BY FLOAT FLANGES C/W SS ARMOR & LIFTING EYES	CITADEL DRILLING	Customer Contact: PAUL HOFFMAN 432-241-5360
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4822-4-1/16FXFL-ALE	Serial Number:	022620DW-1		
Customer Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO	DW Industries Work Order Number:	20020164		

DW INDUSTRIES INC.
6287 LONG DRIVE
HOUSTON, TX 77067
Tel. 713 644-8372 Fax 713-644-4947

COPY

Certificate of Conformance



COPY

Quality Assurance,
DW Industries, Inc.

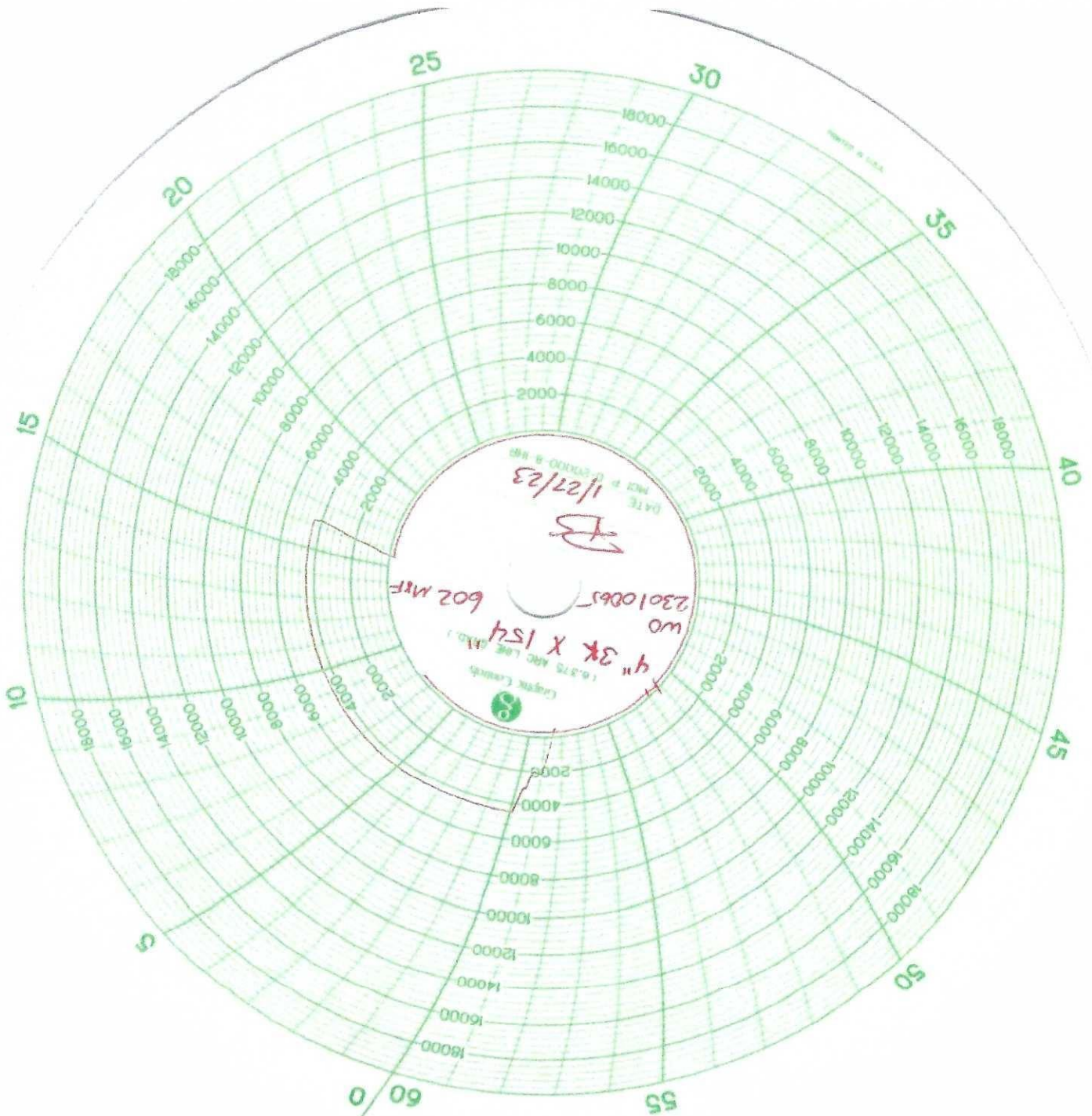
Certificate Issue Date: 1/27/2023

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Customer Name:	ASUTIN HOSE		Customer Contact:	Purchase Order Information				
				Customer Purchase Order Number:	00704977		DW Industries Work Order Number:	23010065
				DW Industries Part Number:	OA-PS5038-64154"-602		Serial Number:	23010065
				QTY Ordered:	1		Assembly Date:	1/27/2023
				Customer Part Number:			Part Description:	4"X154" 3K W/4" FIG 602 MXF

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Certificate of Conformance



IN SERVICE
12-20-21

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr. Suite 190
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/15/2021
Customer Ref.:	00595477	Hose Serial No.:	H3-101521-2
Invoice No.:	521925	Created By:	Micky Mhina

Product Description:	3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES
----------------------	---

End Fitting 1:	4 1/16 10K FIXED FLANGE	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
Oracle Star No.:	68703010-10074881	Assembly Code:	L41975 091719
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Test Pressure:	15,000 PSI.
		Working Pressure:	10,000 PSI.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:	QUALITY
Date :	10/15/2021
Signature :	<i>Micky Mhina</i>

F-PRD-005B

Production:	PRODUCTION
Date :	10/15/2021
Signature :	<i>[Signature]</i>

Revision 6_05032021

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMER P.O.#: 00595477
CUSTOMER P./N.#: 10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE
PART DESCRIPTION: 3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S
SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH
STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES
SALES ORDER #: 521925
QUANTITY: 1
SERIAL #: H3-101521-2

SIGNATURE: _____

A handwritten signature in black ink, appearing to read "M. W. W. W.", written over a horizontal line.

TITLE: _____

QUALITY ASSURANCE

DATE: _____

10/15/2021



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company: Austin Distributing

Production description:

Sales order #: 521925

Customer reference:

TEST OBJECT

Serial number: H3-101521-2

Lot number: L41975091719

Description:

Hose ID: 3" 10k ck

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

Visual check:

Pressure test result: PASS

Length measurement result:

Length: 35 feet

Test operator: francisco





10/15/2021 10:15:57 AM

TEST REPORT

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AQA1S	2021-02-24	2022-02-24
S-25-A-W	110D3PHQ	2021-03-11	2022-03-11

Comment

--

Hydrostatic Test Certificate

ContiTech

Certificate Number H100163		COM Order Reference 1429702		Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Customer Purchase Order No: 740382384					
Project:					
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA		Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 07/14/22		Accepted by Client Inspection	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
------	----------	-------------	-----	---------------	--------------------	-------------------	---------------------

50 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

1

70025

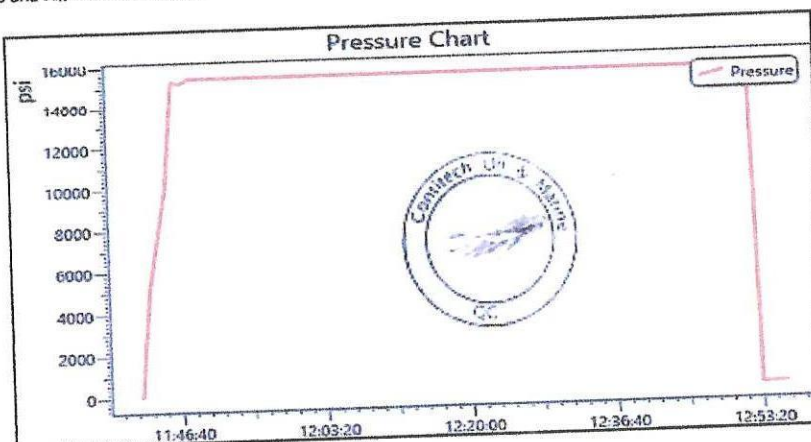
10,000

15,000

60

Record Information	
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237

Gauge Information	
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



**Certificate of Conformity**

ContiTech

Certificate Number H100163	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Customer Purchase Order No: 740382384			
Project:			
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 07/14/22 	Accepted by Client Inspection	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE

Installed

4-29-22



ContiTech

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 120 / 2019
	Page: 16 / 91

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 75819	
PURCHASER: ContiTech Oil & Marine Corp.		P.O. N°: 4501225327	
CONTITECH RUBBER order N°: 1127442	HOSE TYPE: 3" ID Choke and Kill Hose		
HOSE SERIAL N°: 75819	NOMINAL / ACTUAL LENGTH: 10,67 m / 10,68 m		
W.P. 69,0 MPa 10000 psi	T.P. 103,5 MPa 15000 psi	Duration: 60	min.
Pressure test with water at ambient temperature			
See attachment (1 page)			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with 4 1/16" 10K API Swivel Flange end Hub	6026	AISI 4130 AISI 4130 AISI 4130	A0607J 040841 54194
3" coupling with 4 1/16" 10K API b.w. Flange end	6016	AISI 4130 AISI 4130	A0607J 040431
Not Designed For Well Testing		API Spec 16 C 2nd Edition– FSL2	
Temperature rate: "B"			
All metal parts are flawless			
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.			
COUNTRY OF ORIGIN HUNGARY/EU			
Date: 08. April 2019.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. (1) <i>Soum</i> <i>Yacq</i>	



Hose Assembly Evaluation Sheet

Prepared by	Cristian Rivera	Date:	8/27/2022	QIN:	N/A
Customer:	HELMERICH & PAYNE, INC	Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK, TX, 77547-2738		
User contact:	MITCH MCKINNIS	Phone:		e-mail:	mitch.mckinnis@hpinc.com
	Parameters	Hose Details			Test Status
Application Information	PO	740398454 (88000240 SN:70035)			PASS
	Gates SO	525035			
	Serial #:	88000240 SN:70035			
	As Tested Serial:	H2-082722-1 RE-TEST			
	Hose ID:	3 IN			
	Hose type:	INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END			
	Working pressure:	10000 PSI.			

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairable damages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.





Figure 1: Generic Hose Assembly





Hose Assembly Evaluation Sheet

1.0 Observations and comments

	Comments
1	<div></div> <p>Photos: ID.</p>
2	<div></div> <p>Photo: Damaged armor areas</p>



Hose Assembly Evaluation Sheet

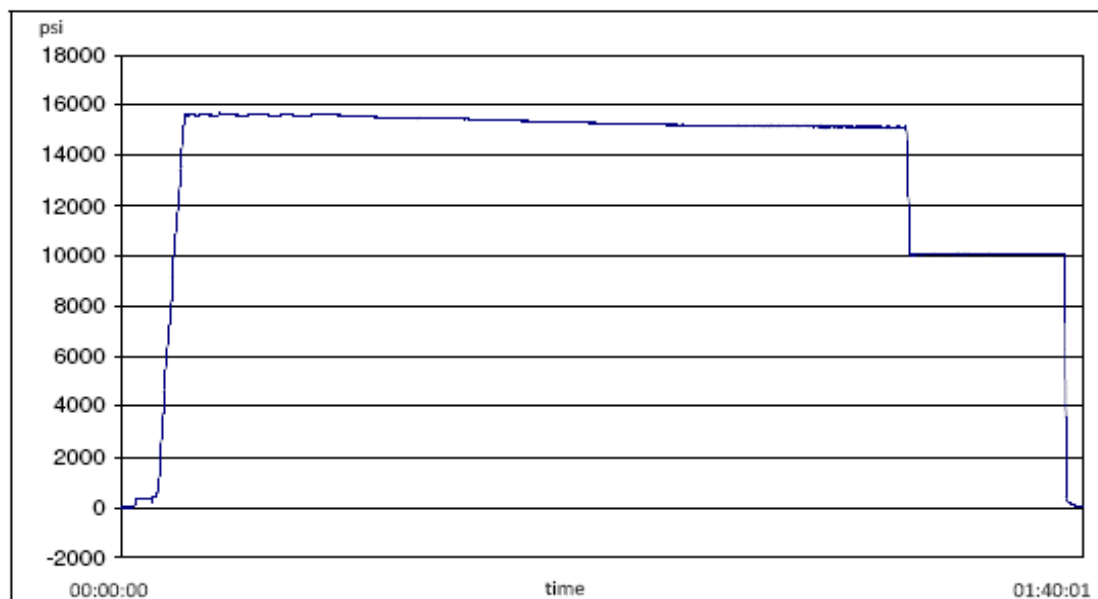
3	<div data-bbox="326 195 1253 873"></div> <p data-bbox="688 945 886 972">Photos: At Shipping.</p>
4	<div data-bbox="319 1005 1292 1715"></div> <p data-bbox="639 1751 935 1778">Photos: Armor and Engraving.</p>



Hose Assembly Evaluation Sheet

5	 <p style="text-align: center;">Photo: In the Crate</p>
---	---

2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16	3 10K C&K	2022-08-27	Martin Orozco

2.2 Gates Hydrostatic Pressure tester

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09



Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Results	
1	Hydrostatic Test Results ⁽¹⁾	Pass	Fail
2	Failure Mode	None	
3	Hose Dispatched to the customer?	Yes	No

Note:

1. Hydrostatic Pressure report is given in Appendix 1

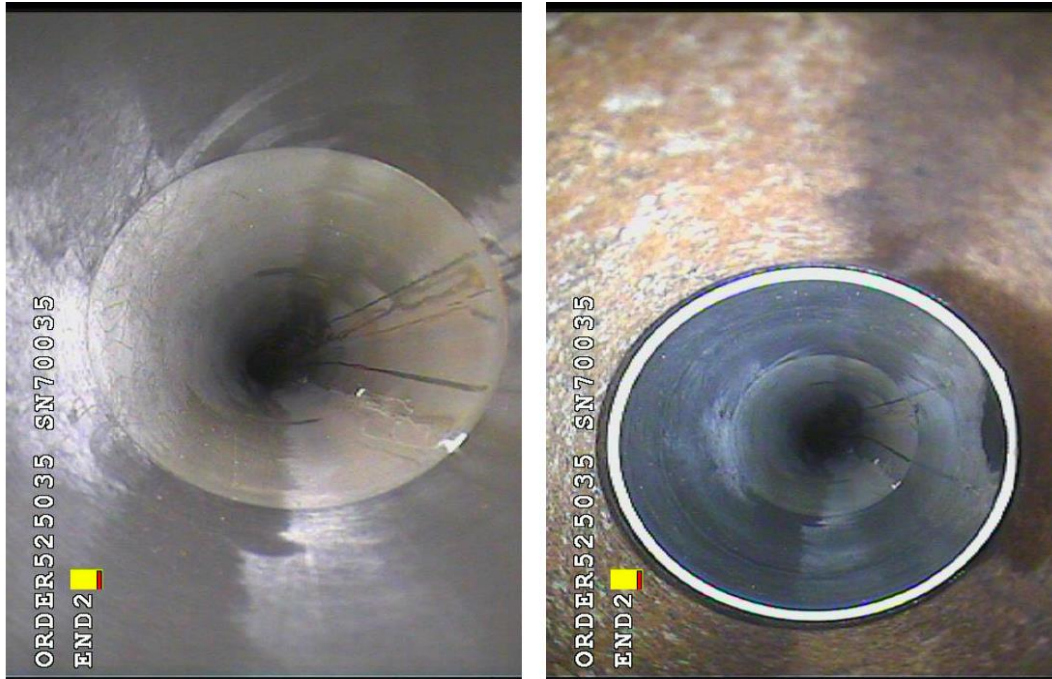
3. Hose borescope inspection

3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None



Photos: Liner/Coupling Interface END 1

**Hose Assembly Evaluation Sheet**

Photos: Liner/Coupling Interface END 2

Note

Borescope completed? Yes

4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.



Hose Assembly Evaluation Sheet

APPENDIX 1:
Pressure Chart

H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

CUSTOMER

Company:

Production description:

Sales order #:

525035

Customer reference: 740398454 (88000240 |
SN:70035)

TEST OBJECT

Serial number:

H2-082722-1

Lot number:

Description:

Hose ID:

3 10k C&K

Part number:

TEST INFORMATION

Test procedure:

3 10K C&K

Test pressure:

15000.00 psi

Test pressure hold:

3600.00 sec

Work pressure:

10000.00 psi

Work pressure hold:

900.00 sec

Length difference:

0.00 %

Length difference:

0.00 inch

Fitting 1:

3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2:

3.0 x 4-1/16 10K

Part number:

Description:

Visual check:

Pressure test result:

PASS

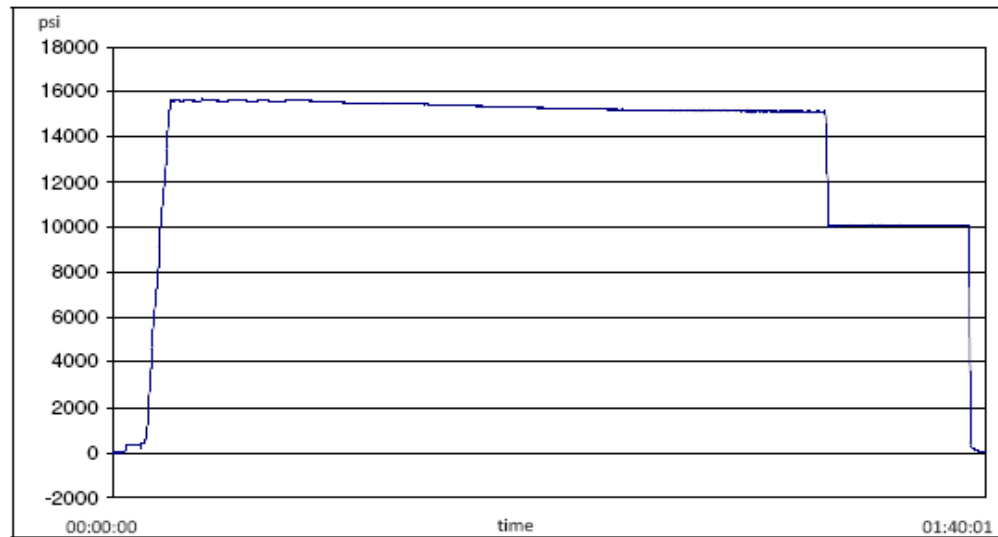
Length measurement result:

Length:

35 feet

Test operator:

Martin



Filename: D:\Certificates\Report_082722-H2-082722-1.pdf

Page 1/2

Hose Assembly Evaluation Sheet



H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09

Comment

Hose Assembly Evaluation Sheet

APPENDIX 2:
Certificate of Conformance

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

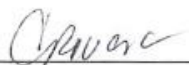
CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

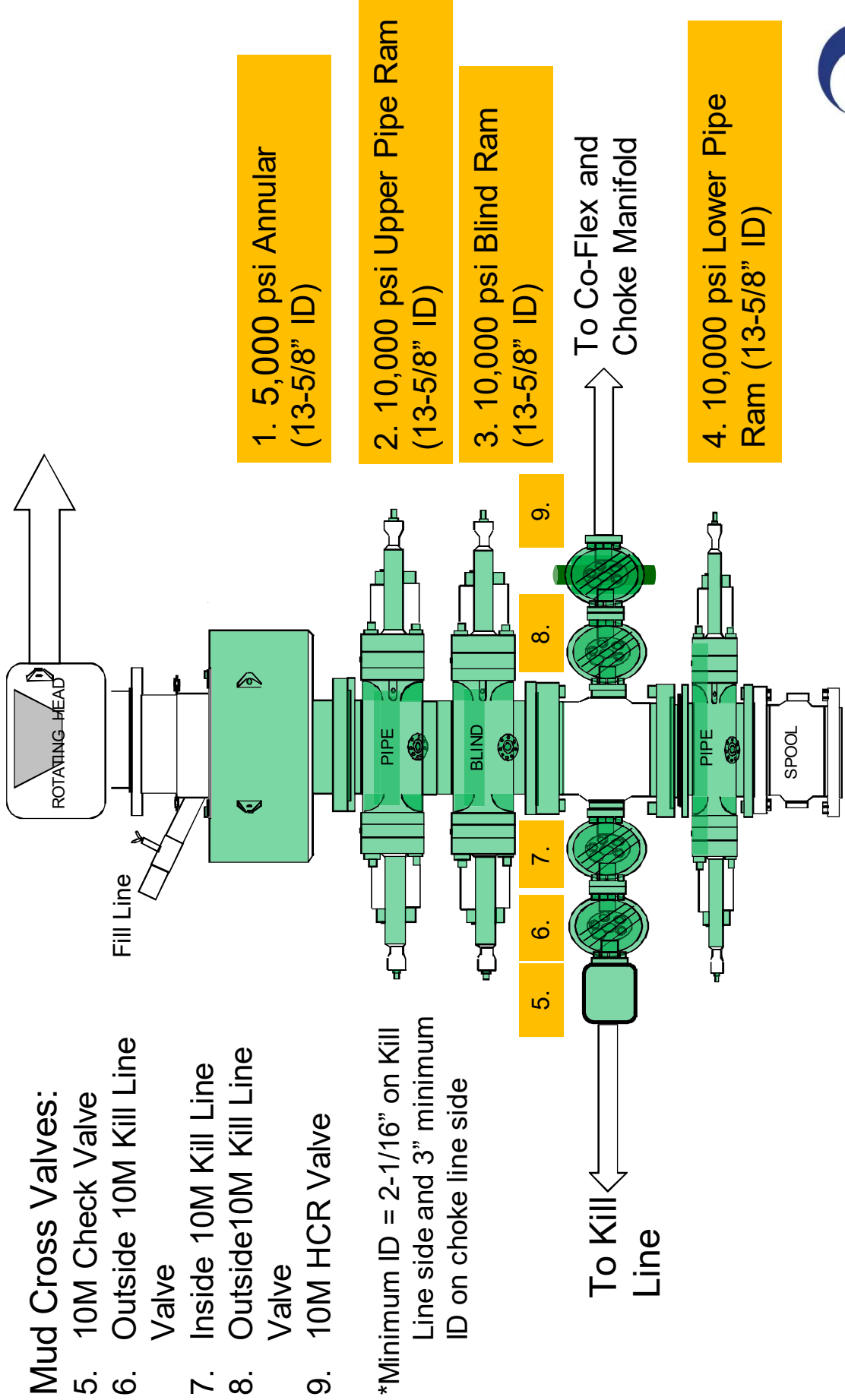
CUSTOMER: HELMERICH & PAYNE, INC
CUSTOMER P.O.#: 740398454 (88000240 | SN:70035)
CUSTOMER P/N: 88000240 | SN:70035

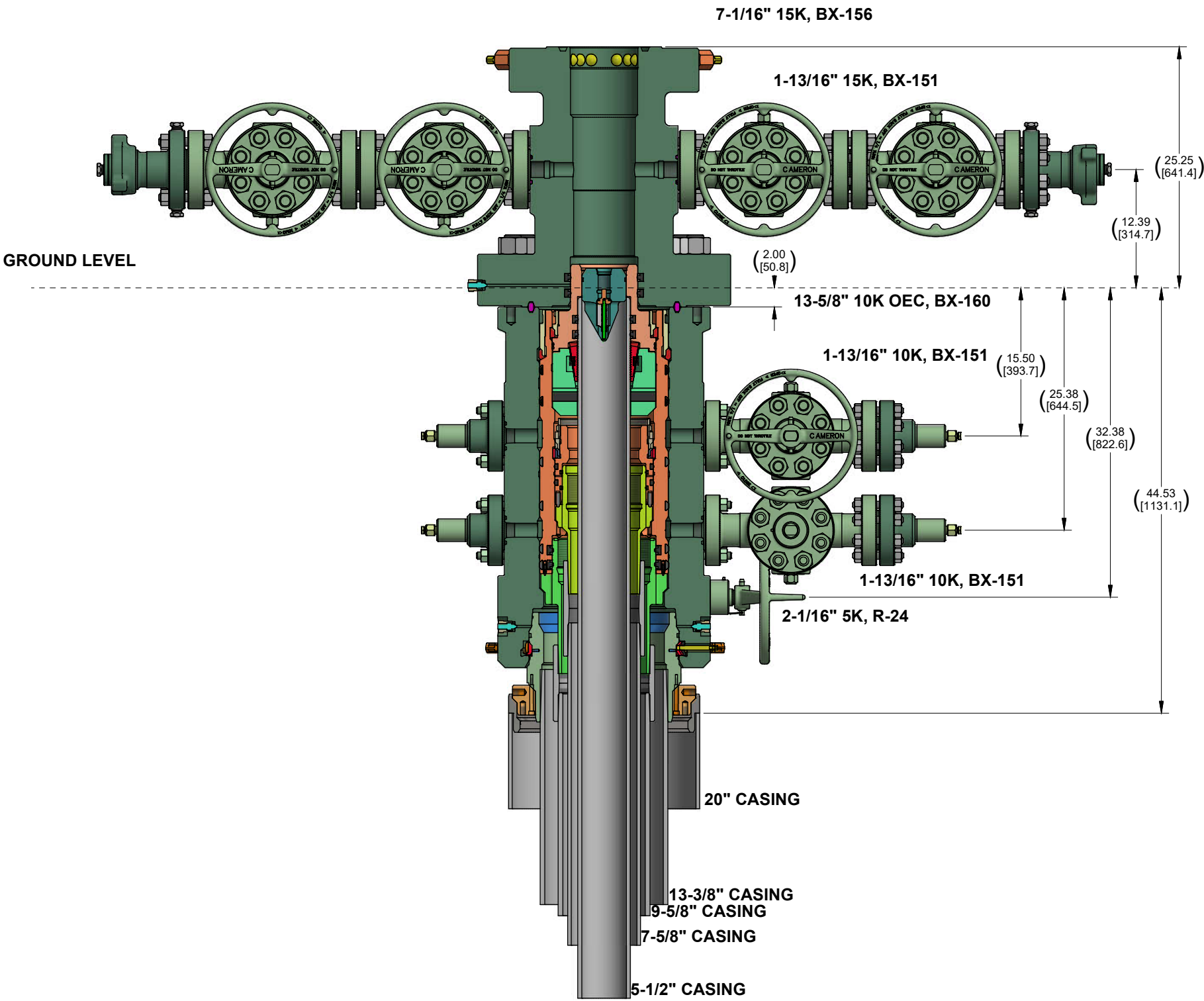
PART DESCRIPTION: INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END


SALES ORDER #: 525035
QUANTITY: 1
SERIAL #: H2-082722-1 RE-TEST

SIGNATURE: 
TITLE: QUALITY ASSURANCE
DATE: 8/27/2022

5/10M BOP Stack





CONFIDENTIAL								
SURFACE TREATMENT	DO NOT SCALE		 CAMERON A Schlumberger Company	SURFACE SYSTEMS				
MATERIAL & HEAT TREAT	DRAWN BY:	DATE	OXY ADAPT NST 10K 3 STAGE WELLHEAD STANDARD / EMERGENCY SYSTEM					
	A. SKLENKA	26 Apr 22						
	CHECKED BY:	DATE						
ESTIMATED WEIGHT:	APPROVED BY:	DATE	SHEET		REV: 01			
	A. SKLENKA	26 Apr 22						
7968.4 LBS (3614.4 KG) INITIAL USE B/M: IT# 7836394			1 of 1			LO-096232-62		
					INVENTOR: D.			



API BTC -Special Clearance

Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Type	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

Geometry				Performance	
Nominal OD	10.750 in.	Drift	9.875 in.	SMYS	80,000 psi
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft	Min UTS	95,000 psi
Nominal Weight	45.500 lb/ft	OD Tolerance	API	Body Yield Strength	1040 x1000 lb
Nominal ID	9.950 in.			Min. Internal Yield Pressure	5210 psi
				Collapse Pressure	2950 psi
				Max. Allowed Bending	34 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	1041 x1000 lb
Connection OD	11.250 in.	Coupling Face Load	478 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	4150 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
- External:
 - For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
 - For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of $0.02 \times \text{MD of the shoe}$ to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads**Lost Circulation (Surface / Intermediate)**

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run. Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads**Running Casing (Surface / Intermediate / Production)**

- Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

- Axial: Buoyant weight of the string plus cement plug bump pressure load.



CONNECTION DATA SHEET

OD: 5.500 in.

Weight: 20.00 lb/ft

Wall Th.: 0.361 in.

Grade: P110 RY

Drift: 4.653 in. (API)

VAM[®] SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN

22,500 OPTI

25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 MIN

15,750 MAX

(2) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	Controlled Yield	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	125	ksi
Minimum Ultimate Tensile Strength	140	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi


CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral	
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,110	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft


(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



BOOST YOUR EFFICIENCY, REDUCE COSTS
AND ENSURE 100% WELL INTEGRITY WITH

VAM[®] FIELD SERVICE

Scan the QR code
to contact us



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Phone: (505) 476-3441

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Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 464532

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464532
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
lesliereeves	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/19/2025
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/19/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/20/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/20/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	6/20/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	6/20/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	6/20/2025